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PERSONAL.

Mr. Clarence Goldsmith, of Andover, Mass., has been appointed Superintendent of the Water-Works system of North Andover.

Mr. Russell Harding, General Superintendent of the Great Northern Ry., it is reported, will soon assume the Vice-Presidency of the Cotton Belt System.

Mr. E. Sherman Gould, M. Am. Soc. C.E., is still in Cuba. His present address is "Hotel Pasaje, Habana, Cuba," instead of "Hotel Inglaterra," as previously noticed.

Mr. Eustace Oxley, formerly with the United States Electric Light Co., Washington, D. C., is now associated with the engineering staff of the General Electric Co., Schenectady, N. Y.

Capt. W. W. Peabody, Vice-President of the Baltimore & Ohio Southwestern Ry., has been forced to retire from active work on account of his eyesight, and will present his resignation.

Lieut.-Colonel John Biddle, M. Am. Soc. C. E., Corps of Engineers, U. S. A., has been ordered to join the First Army Corps, located at Lexington, Ky., to act as chief engineer officer.

Messrs. R. S. Hale, Assoc. M. Am. Soc. M. E., and J. S. Codman have formed a partnership for the practice of steam, electrical and general consulting engineering, with offices at 31 Milk St., Boston, Mass.

Mr. William M. Greene, General Manager of the Baltimore & Ohio R. R. Co., it is reported, will resign on Nov. 1 to become Vice-President and General Manager of the Baltimore & Ohio Southwestern Ry. Co.

Mr. Jesse M. Smith, M. Am. Soc. M. E., consulting mechanical and electrical engineer, of Detroit, Mich., has removed to New York City, and opened an office in the St. Paul Bldg. He will also retain his Detriot office.

Mr. Frank H. Olmstead, of Los Angeles, Cal., who is associated with Mr. J. B. Lippincott, the consulting engineer of the Pasadena Water-Works, received the Republican nomination for City Engineer of Los Angeles.

Prof. Francis B. Crocker, of Columbia University, New York city, President of the American Institute of Electrical Engineers, has started on a tour of the world which, it is expected, will occupy most of a year's leave of absence which has been granted him.

Mr. Chas. F. Walker, of the business department of Engineering News, was married on Oct. 20 to Miss Jennie Van Name Dodd, at the residence of her father, Mr. Marvin Dodd, in East Orange, N. J. Mr. Walker was formerly a student in the School of Mines, Columbia University.

Col. Geo. E. Waring, Jr., late Commissioner of Street Cleaning of New York, arrived at New York, on Oct. 25, on the steamer "Yucatan" from Cardenas and Havana. Colonel Waring was suffering from malaria, but expects to be in Washington in a few days, when he will present to the President his report regarding the means necessary to put Havana in a healthy condition.

Mr. Wm. P. Bates, Superintendent of the J. H. Somers Fuel Co.'s mine No. 2, at Belle-Vernon, Pa., was very seriously injured on Oct. 13 by a land slide at the entrance to the mine. Mr. Bates, in company with his brother, Mr. Albert D. Bates and Mr. Chas. W. Somers, General Manager of the company, started to inspect some improvements at the entrance. Mr. Somers noticed the slide and called to the others. Messrs. Somers and A. D. Bates escaped with slight injury.

OBITUARY.

Mr. Mark M. Cohn, President of the Board of Water Commissioners of Saratoga, N. Y., died at his residence on Oct. 22.

Mr. Wm. H. Case, mining and civil engineer, died at his home in Brooklyn, N. Y., on Oct. 24. Mr. Case was born in New York state April 27, 1841. In 1866 he was graduated from Union College. From that time on he was actively engaged in the practice of engineering in New York and the Southern States.

Capt. Philip Inch, Chief Engineer, U. S. N., who was retired last August, died at Saratoga, N. Y., on Oct. 18, aged 62 years. His appointment to the navy was from the District of Columbia on Nov. 21, 1857. He became a chief engineer in 1863. At the time of his retirement he was the senior officer of the Engineer Corps of the Navy.

Mr. Louis De Blois Bartlett, of Fitchburg, Mass., died suddenly on Oct. 19. Mr. Bartlett was born in 1825, at Marblehead, and started his career of mechanical engineering under the late Otis Tufts, of Boston. In 1859 he moved to Fitchburg, Mass., where he became successively director, treasurer and president of the Putnam Machine Co. In 1885 he retired from the company.

Mr. Horace B. Miller, formerly President and General Manager of the "American Machinist," died on Oct. 25, at Napa, Cal. Mr. Miller was born in Philadelphia about 60 years ago. In partnership with Messrs. Jackson and Bailey he founded the "American Machinist," of which he was president and general manager for 16 or 17 years. Later he sold out his interest and went to New Mexico for his health.

Mr. John H. Dialogue, of Camden, N. J., senior member of the firm of Dialogue & Son, iron shipbuilders, died at his home in Camden on Oct. 23, after a brief illness. He was born in Philadelphia, Pa., in 1828. In 1850 he started a small machine shop in Camden, which grew to its present proportions as a result of his untiring industry. The firm has within recent years built many government craft, the latest vessel being the "Princeton."

Mr. Frank C. Doran, M. Am. Soc. C. E., died on Oct. 15 at his home at Englewood, Ill. Mr. Doran was born in Eastern Indiana in 1850. His first engineering work was on the old Panhandle R. R. Later he settled in Indianapolis, where he became associated with Mr. George Epsy and built the Union Station of that city. From Indianapolis he went to Omaha to build a union railway station, which was not completed owing to litigation between the railways and the city. Leaving there he went to Chicago to take charge of the construction of the new Chicago Belt R. R., upon which he was engaged at the time of his death.

Col. A. P. Robinson, one of the pioneer civil engineers of the country, died at Conway, Ark., on Oct. 12. He was born in 1822 in Hartford county, Conn. He began engineering work as a rodman on the first section of the Erie R. R., west of the Hudson River. After the civil war he made an exploration from the Missouri River as far as Denver, under government escort. Following this he was engaged by the Missouri, Kansas & Texas R. R. until 1869, when he went to Little Rock, Ark., and became connected with the St. Louis, Iron Mountain & Southern R. R. and the Little Rock & Fort Smith R. R., as chief engineer. He also laid out the government reservation at Hot Springs. In 1871 Col. Robinson located on a tract of 640 acres which he had previously purchased from the Little Rock & Fort Smith R. R. Co. Around him grew up the city of Conway, of which he was several times elected mayor.

Mr. John Gjers, whose death occurred in the week ending Oct. 15, has for years been a prominent figure in the iron industry of England. He was born in Gothenburg, Germany, in 1830, and went to Manchester, England, at the age of 21, where he was engaged in drafting and machine designing. In 1854 he went to Middlesborough, where he built the Ormesby blast furnaces. In 1855 he became the manager of these works and from this time on developed many improvements in blast furnace apparatus. Among his inventions may be mentioned a type of vertical blowing engine, an improved soaking pit, a system for granulating blast furnace slag, a process for manufacturing steel rails, etc. In 1870 Mr. Gjers founded the firm of Gjers, Mills & Co., of which he was principal partner until his death. He was one of the founders of the Iron and Steel Institute, and received in 1894 the Bessemer gold medal.

ENGINEERING SOCIETIES.

COMING TECHNICAL MEETINGS.

AMERICAN INSTITUTE OF ARCHITECTS.
Nov. 1-3. Annual meeting, Washington, D. C. Secy., Alfred Stone, Providence, R. I.
WESTERN SOCIETY OF ENGINEERS.
Nov. 2. "Construction of Retaining Walls for the Sanitary District of Chicago," James W. Beardsley; "Berthier Method of Coal Calorimetry," Chas V. Kerr; "Brakes for Electric Cars," William G. Price. Secy., N. L. Litten, Monadnock Block, Chicago, Ill.
AMERICAN SOCIETY OF CIVIL ENGINEERS.
Nov. 2. Discussion on "Roads and Road Making." Secy., C. W. Hunt, 220 W. 57th St., New York city.
ENGINEERS' CLUB OF ST. LOUIS.
Nov. 2. Secy., Richard McCulloch, 2401 N. Spring Ave., St. Louis, Mo.
BROOKLYN ENGINEERS' CLUB.
Nov. 3. Secy., A. J. Provost, Jr., 191 Montague St., Brooklyn, N. Y.
TECHNICAL SOCIETY OF THE PACIFIC COAST.
Nov. 4. Secy., O. Von Geldern, 819 Market St., San Francisco, Cal.
BROOKLYN INSTITUTE OF ARTS AND SCIENCES.
Nov. 4. Illustrated Lecture, T. C. Martin. Secy., Henry I. Weed, Brooklyn Institute of Arts and Sciences, Brooklyn, N. Y.
CHICAGO ELECTRICAL ASSOCIATION.
Nov. 4. "The Electrical Equipment of a Model Printing Establishment," Geo. A. Damon. Secy., J. R. Cravath, 825 Monadnock Block, Chicago, Ill.
ENGINEERS' CLUB OF COLUMBUS.
Nov. 5. Secy., H. M. Gates, 12½ North High St., Columbus, O.
ENGINEERS' SOCIETY OF WESTERN NEW YORK.
Nov. 7. Secy., H. J. March, Library Bldg., Buffalo, N. Y.
CIVIL ENGINEERS' SOCIETY OF ST. PAUL.
Nov. 7. Secy., C. L. Annan, City Engineer's Office, St. Paul, Minn.
NEW ENGLAND RAILROAD CLUB.
Nov. 8. Secy., Edw. L. Janes, P. O. Box 1158, Boston, Mass.
DENVER SOCIETY OF CIVIL ENGINEERS.
Nov. 8. Secy., W. B. Lawson, 36 Jacobson Bldg., Denver, Col.
CIVIL ENGINEERS' CLUB OF CLEVELAND.
Nov. 8. Secy., Wm. H. Searles, Case Library Building, Cleveland, O.
RAILWAY SIGNALING CLUB.
Nov. 8. Secy., Earl M. Seitz, Signal Engineer, C. & N. W. Ry., Chicago, Ill.
FRANKLIN INSTITUTE.
Nov. 9. "Mining and Minting of Gold and Silver," A. E. Outerbridge, Jr. Secy., Wm. Wahl, 15 South Seventh St., Philadelphia, Pa.
CANADIAN SOCIETY OF CIVIL ENGINEERS.
Nov. 10. Secy., C. A. McNab, 112 Mansfield St., Montreal, Canada.
ENGINEERING ASSOCIATION OF THE SOUTH.
Nov. 10. Secy., C. B. Wilson, 1000 Broad St., Nashville, Tenn.
SOCIETY OF NAVAL ARCHITECTS AND MARINE ENGINEERS.
Nov. 10-11. Annual meeting. Secy., Francis T. Bowles, 12 West 31st St., New York.
ST. LOUIS RAILWAY CLUB.
Nov. 11. "The Performance of a Four-Cylinder Compound Locomotive." Discussion. Secy., H. H. Roberts, 511 Commercial Bldg., St. Louis, Mo.
CENTRAL RAILWAY CLUB.
Nov. 11. Secy., H. D. Vought, 114 Fifth Ave., New York city.
MONTANA SOCIETY OF ENGINEERS.
Nov. 12. Secy., A. S. Hovey, National Bank Bldg., Helena, Mont.
ENGINEERS' CLUB OF KANSAS CITY.
Nov. 14. "Rectification of the Red and Atchaflaya Rivers," A. F. Woolley, Jr. Secy., F. W. Tuttle, Baird Bldg., Kansas City, Mo.
THE LOUISIANA ENGINEERING SOCIETY.
Nov. 14. Secy., J. F. Coleman, 712 Union St., New Orleans, La.
NORTHWEST RAILWAY CLUB.
Nov. 15. Secy., T. A. Foque, Soo Line, Minneapolis, Minn.
ENGINEERS' SOCIETY OF WESTERN PENNSYLVANIA.
Nov. 15. Secy., R. A. Fessenden, 410 Penn Ave., Pittsburg, Pa.
ENGINEERS' AND ARCHITECTS' ASSOCIATION OF SOUTHERN CALIFORNIA.
Nov. 16. Secy., Frank H. Olmsted, Los Angeles, Cal.
BOSTON SOCIETY OF CIVIL ENGINEERS.
Nov. 16. Secy., S. E. Tinkham, City Hall, Boston, Mass.
WESTERN FOUNDRYMEN'S ASSOCIATION.
Nov. 16. Secy., B. M. Gardner, 1522 Monadnock Block, Chicago, Ill.
NEW YORK RAILROAD CLUB.
Nov. 17. Secy., W. W. Wheatley, 168 Montague St., Brooklyn, N. Y.
SOUTHERN AND SOUTHWESTERN RAILWAY CLUB.
Nov. 17. Secy., F. A. Charpiot, P. O. Box 13, Savannah, Ga.
ENGINEERS' CLUB OF CINCINNATI.
Nov. 17. Secy., J. F. Wilson, P. O. Box 333, Cincinnati, O.
ENGINEERS' CLUB OF PHILADELPHIA.
Nov. 19. Secy., L. F. Rondinella, 1122 Girard St., Philadelphia, Pa.
TECHNICAL CLUB OF OMAHA.
Nov. 21. Secy., J. Harry Lawrie, Omaha, Neb.
ENGINEERS' CLUB OF MINNEAPOLIS.
Nov. 21. Secy., H. E. Smith, 1620 S. E. 4th St., Minneapolis, Minn.
ENGINEERS' AND ARCHITECTS' CLUB OF LOUISVILLE.
Nov. 21. Secy., Marshall Morris, 16 Norton Bldg., Louisville, Ky.

BROOKLYN INSTITUTE.—A meeting of the Department of Mineralogy was held on Oct. 13, to listen to a lecture of Prof. W. G. Levison, on "Luminescent Minerals."

MONTANA SOCIETY OF ENGINEERS.—At the last meeting of this society, held Oct. 12, a committee was appointed to select a place of meeting for the annual convention. Helena was chosen and the time fixed as the second Saturday in January.

PITTSBURG FOUNDRYMEN'S ASSOCIATION.—The regular meeting of this association was held Oct. 24. The paper of the evening was by Dr. R. Moldenke, Pittsburg, Pa., on "The Melting Point of Cast Iron," and is given in full elsewhere in this issue.

WESTERN RAILWAY CLUB.—A regular meeting of this club was held Oct. 18 in the Auditorium Hotel, Chicago. Mr. P. H. Peck presented a paper on "The Adoption of a Standard Knuckle," which was followed by a topical discussion on "What is the Best Disposition to be Made of the Exhaust from the Air Pump?"

NEW YORK ELECTRICAL SOCIETY.—The 190th regular meeting of this society and the first meeting of the fall of 1898 will be held by the courtesy of the Edison Electric Illuminating Co., at the Pearl St. sub-station, Brooklyn, N. Y., at 7:30 p. m., on Oct. 27. Mr. W. S. Barstow, Chief Engineer, will give a brief address, after which special trolley cars will be boarded and a flying visit made to sub-station "A" and the large Union Central Station at Bay Ridge.

NEW YORK ACADEMY OF SCIENCES.—The geological and mineralogy section of this association held a meeting on Oct. 17, at which Prof. J. F. Kemp, of Columbia University, read a paper on "The Copper Mines at Ducktown, Polk County, Tenn." A number of views of the mines and samples of ores were exhibited. This was followed by papers entitled "Notes on Glacial Phenomena of Staten Island," by Prof. Arthur Hollick, Columbia University, and "The Sedimentary Formations of Northern South America," by Francis C. Nicholas.

ENGINEERS' CLUB OF PHILADELPHIA.—At the last meeting of this club, held Oct. 15, Mr. George S. Webster, Chief of the Bureau of Surveys, read a paper on the "Pennsylvania Avenue Subway." This was a statement of the conditions which necessitated a change in the system of carrying the traffic of the Reading R. R. to the Terminal station and the various remedies suggested. The plans adopted and the difficulties encountered in carrying them out were explained. The work was described in Engineering News of April 16, 1896.

FRANKLIN INSTITUTE.—At the last meeting of the Institute, held at the Institute Hall on the evening of Oct. 8, three papers were presented and discussed, as follows: "The Johnson-Lundell Surface-Contact System of Street Railway," Edward H. Johnson, Vice-President and Gen-

eral Manager of the Sprague Electric Co., New York; "An Improved Form of Marine Boiler," Edward J. Moore, Philadelphia, Pa.; "Chimneys for Incandescent Gas Lamps," Ernest M. Moore, Philadelphia; "Some Observations on Scientific and Technical Matters, Gleaned During a Recent Visit Abroad," Prof. Joseph W. Richards, Bethlehem, Pa.

At the meeting of the mining and metallurgical section of the Institute, held Oct. 12, Mr. William Griffith presented a paper, entitled "Anthracite Coal in Peru."

This was a description of the two main coal fields in Northern Peru which produce coal equal in quality to the average of Pennsylvania anthracite. In the first of these, if surface indications are as reliable here as elsewhere, there are very large quantities of coal which are entirely above the water level and can be mined by simply running drifts or tunnels. This enormous coal supply is only 300 miles from the navigable part of the Amazon and 150 miles from the Pacific Ocean. The other, about 100 miles from the first, is on the Chicama River, about 30 miles southwest from Huama Chuco. At this point coal can be traced over a large area. In quality it is also very good, fully equal to the Pennsylvania coal. This bed is only about 100 miles from the Pacific coast.

AMERICAN SOCIETY OF CIVIL ENGINEERS.—The regular meeting of this society was held at the Society House, New York city, Oct. 19, at which a paper by Mr. Arthur L. Adams, on "Stave Pipe—Its Economic Design and the Economy of Its Use," was read. This is abstracted elsewhere in this issue.

After the discussion, the secretary, Mr. Chas. W. Hunt, read a letter from the American Architectural League, inviting the society to attend a meeting of the League to be held on Nov. 1, at 8:30 p. m., at which the question of proper schemes and designs for recreation piers, viaducts and public baths for New York city would be discussed.

The discussion upon "Roads and Road Making," begun at the first fall meeting, will be resumed at the meeting of Nov. 2.

CENTRAL RAILWAY CLUB.—The next meeting of this club will be held at the Hotel Iroquois, Buffalo, N. Y., on Nov. 11, at 2 p. m.

The morning will be devoted to visiting the shops of the New York Central R. R., and the Lackawanna shops at East Buffalo.

Reports will be received from committees on the following subjects: "Perfection of Top-Hinged Oil-Box Lids, so as to more completely exclude dust from journal-boxes, and the relation of a tight-fitting lid to cost of lubrication and number of hot boxes;" "The Most Desirable Material for Diving Boxes, and Should They be Solid or Have a Shell Bearing?" There will also be a discussion on the subject "Which is the more economical, a single nozzle or a double nozzle, and what should be the ratio between height of nozzle and radius of boiler?"

ENGINEERS' CLUB OF ST. LOUIS.—The 447th meeting of this club was held on Oct. 19, with 35 members and visitors present.

A motion directing the representatives of the Engineers' Club of St. Louis on the Board of Managers of the Association of Engineering Societies to bring before the board the question of publishing annually in the Journal a list of all the members of all the clubs belonging to the association was carried. The paper of the evening, by Mr. B. H. Colby, was entitled "Repairs to the Mill Creek Sewer." The section of this sewer is 20 × 15 ft. and its present length is about 25,000 ft. The present dry weather flow is about 40,000,000 gallons. It was begun in 1860 and has been built by piecemeal. The sewer was originally built on a timber bottom and the weight of the side walls has forced up the timber under the center of the sewer. The timber is now being replaced by a concrete inverted arch and the methods employed to effect these repairs were described.

Richard McCulloch, Secy.

ENGINEERS' SOCIETY OF WESTERN PENNSYLVANIA.—This society held a regular meeting Oct. 18, at the society's house, 410 Penn Ave., Pittsburg, Pa.

The paper of the evening, on "Transportation of Iron Ore," was read by Mr. E. B. Taylor, Superintendent of Transportation on Pennsylvania Lines West of Pittsburg. This was the first of a series of papers which will be read at the Engineers' Society during this and next year. The subjects of the other papers are as follows: "Manufacture of Pig Iron;" "Foundry Practice;" "Malleable Castings;" "Wrought Iron Making;" "Bessemer Steel, Acid and Basic;" "Open-Hearth Steel, Acid and Basic;" and "Crucible Steel." The authors of these papers will be the chief authorities in each branch, and it is expected that the series of papers will be one of the most valuable ever published on the subject of iron manufacture.

Mr. Taylor's paper contained a great deal of valuable statistical information and was illustrated with numerous drawings, blue prints, and photographs of docks and machinery used in handling the ore.

PENNSYLVANIA STREET RAILWAY ASSOCIATION.—This association held its 7th annual convention at Scranton, Pa., on Oct. 19.

Two papers were read, one on "Parks and Amusements," by E. H. Davis, Williamsport, Pa.; the other, "A System of Collection of Fares and Checking Employees," by A. F. Walter, Allentown. The secretary then read a report on "Standing Rules for Government of Conductors and Motormen," which had been prepared by a committee of the American Street Railway Association. Reports of officers and committees followed, and the meeting closed after selecting Lebanon as the next place of meeting. The afternoon was spent in trolley rides over the local lines, and the evening in enjoying the usual convention banquet.

The officers elected for the ensuing year were Pres., Frank Silliman, Jr.; First Vice-Pres., William B. Given, Lancaster; Second Vice-Pres., Dallas Sanders, Schuylkill Traction Co.; Secy., S. P. Light, Lebanon & Annville Street Railway Co.; Treas., W. H. Lanius, York; Executive Committee, Messrs. Silliman, Light and Lanius, E. C. Felton, Harrisburg, and C. P. King, Pottsville.

AMERICAN INSTITUTE OF ARCHITECTS.—The 32d annual convention of the Institute will be held at the Arlington Hotel, Washington, D. C., on Nov. 1-3.

The programme announced is as follows:

Nov. 1—The consideration of committee reports, reports of officers and the annual address of the President. The afternoon session will be a continuation of that of the morning, luncheon being served in the convention hall during a brief intermission.

In the evening the entire party will inspect the Congressional Library under the direction of Mr. Bernard R. Green, who had charge of its construction.

Nov. 2—morning—"Acoustics," Prof. W. B. Sabine, Harvard University; a communication upon the same, Adolf Cluss, Washington, D. C.; "Some Peculiarities of Timber," Prof. B. E. Fernow, Cornell University; "Some Characteristics of Building Stones," Prof. G. P. Merrill, Washington, D. C. These papers will be followed by committee reports, unfinished business, etc.

Evening—"The Place to be Assigned to Jewish People in Architectural History," Dr. Cyrus Adler, Smithsonian Institute; "General Practice in Regard to the Employment of Electrical, Heating and Sanitary Engineers," H. G. Bradlee, Boston, Mass.

Nov. 3—morning—Reports of committees, unfinished business, election of officers, etc.

A very interesting schedule of excursions has been arranged to occupy the afternoons of the convention days.

WESTERN SOCIETY OF ENGINEERS.—On Oct. 15 there was a second trip to inspect the track elevation work now in progress in Chicago. A special train on the Pittsburg, Fort Wayne & Chicago Ry. carried the party over that line as far as Colehour. On returning, stops were made to enable the party to see the style of masonry and type of bridge floors adopted, and at Englewood some time was spent in examining the work where the road crosses (at grade) the track elevation of the Chicago, Rock Island & Pacific Ry. and Lake Shore & Michigan Southern Ry. As the yard will be raised at this point, it was desired to avoid the obstructions of bridge girders, and there will be a large area of flat steel floors, the plates being riveted to Z-bars resting upon I-beams, supported by masonry walls and steel columns. The P., Ft. W. & C. Ry. uses a ballasted trough floor, and the ballast deadens the noise of trains, so that in the subway underneath only a slight rumbling is heard when a heavy train passes. Near 16th St. a number of the party left the train and walked over to inspect the progress of work at the 16th St. crossing.

A special train for the Omaha exhibition left Chicago on Friday night, Oct. 14, returning Monday morning.

On Oct. 21 there was a "ladies evening," an informal meeting at which Mr. Geo. S. Morison, M. Am. Soc. C. E., delivered a popular lecture on "Masonry," illustrated by excellent stereopticon views of ancient structures in Rome, Egypt and Mexico, temples and reservoir dams in India, and ancient and modern churches, monuments, bridges, etc.

THE AMERICAN GAS LIGHT ASSOCIATION.—The 20th annual meeting of this association was held last week at Niagara Falls, N. Y.

At the opening session, Oct. 19, a committee on nominations was appointed, and later presented the following list: Pres., A. C. Humphreys, New York; Vice-Presidents, G. G. Ramsdell, Philadelphia; E. G. Platt, Des Moines, and W. R. Beal, New York; Secy. and Treas., Alfred Forstall, Montclair, N. J.; Members of the Council, Rollin Norris, Philadelphia; Malcolm S. Greenough, Cleveland, O.; C. H. Dunbar, Elgin, Ill., and S. J. Fowler, Springfield, Mass. These gentlemen were elected.

The address of the President, Mr. J. B. Crockett, San Francisco, was a lengthy treatment of the subject of municipal encroachment upon private enterprise and the damage to gaslight property by electric street railway companies. The afternoon session was occupied by papers on "How Can We Make the Use of Gas More Universal," by H. L. Doherty, Madison, Wis., and "The Loss of Illuminating Power of 25 to 30-Candle Gas When Mixed with Air," by Dr. E. G. Love.

The morning session of the second day of the convention was well occupied in attending to a paper by J. M. Rusby, Jersey City, N. J., on "Depth of Fire in a Water Gas Set," and one entitled "Notes on Mains and Main Laying," by Walton Forstall, Philadelphia. The session closed after selecting New York as the next place of meeting.

At the afternoon meeting two "topics" were considered: "A Gas Engine in a Blowing Plant," H. L. Rice, Norfolk, Va., and "An Experiment with the Shadbolt Self-Enriching Process," Irwin Butterworth, Columbus, O. Mr. A. E. Forstall, the secretary, also read a paper, "Can We Make All Our Business Pay?" and Mr. A. R. Foote closed the meeting with remarks of interest to those present.

The closing day, Oct. 21, was largely given up to excursions and sightseeing trips.

The attendance was large, there being fully 250 present.

CONSTRUCTION NEWS.

CONDENSED LIST OF CONTRACTS PENDING WITH DATE OF OPENING BIDS.

Bids to be opened.	Work.	Place.	See Eng. News.
Oct. 27.	Macadamizing, etc.,	Findlay, O.	Oct. 20
Oct. 27.	Building,	Central Islip (L.I.), N. Y.	Oct. 20
Oct. 27.	Heat'g, plumb'g, etc.,	Ward's Isld., N. Y. H.	Oct. 20
Oct. 27.	Building substructure,	Boise, Mont.	Oct. 20
Oct. 27.	Stone,	Brooklyn, N. Y.	Oct. 20
Oct. 27.	Asphalt paving,	Winnipeg, Man.	Oct. 20
Oct. 27.	U. S. building,	Camden, N. J.	Oct. 6
	Advertised, Eng. News, Oct. 6 and 13.		
Oct. 27.	Paving,	Camden, N. J.	Sept. 29
Oct. 27.	Electrical machinery,	Hull, England.	Oct. 13
Oct. 27.	Brick sewer,	Peoria, Ill.	Oct. 27
Oct. 28.	Army post buildings,	Ft. Caswell, N. C.	Oct. 27
Oct. 28.	Asphalt paving,	Niagara Falls, N. Y.	Oct. 27
	Advertised, Engineering News, Oct. 27.		
Oct. 28.	Brick paving,	Church St., Troy, N. Y.	Oct. 27
Oct. 28.	Heating plant,	Genoa, Neb.	Oct. 13
Oct. 28.	Pipe sewer,	Monticello, Ind.	Oct. 13
Oct. 28.	Asphalt, brick or stone,	Atlanta, Ga.	Oct. 6
Oct. 28.	Brick paving, etc. (7 Sts.),	Cleveland, O.	Oct. 6
Oct. 28.	Brick and stone wall,	Atlanta, Ga.	Oct. 6
Oct. 28.	Stone wall,	San Francisco, Cal.	Oct. 6
Oct. 28.	Grading and paving,	New Orleans, La.	Oct. 20
Oct. 28.	Cement sidewalks,	Chicago, Ill.	Oct. 20
Oct. 28.	Pipe sewers,	Chicago, Ill.	Oct. 20
Oct. 28.	Laying water mains,	Chicago, Ill.	Oct. 20
Oct. 29.	Brick paving,	Olean, N. Y.	Oct. 20
	Advertised, Engineering News, Oct. 20.		
Oct. 28.	Macadam, curb, etc.,	Warren, O.	Oct. 20
Oct. 28.	Drill hall,	Kingston, Ont.	Oct. 20
Oct. 29.	Electric traveling crane,	Norfolk, Va.	Oct. 20
Oct. 29.	Steam tender,	Louisville, Ky.	Oct. 20
Oct. 29.	Grading and brick paving,	Cleveland, O.	Oct. 6
Oct. 29.	Grading and cement walks,	Irvington, Ind.	Oct. 13
Oct. 29.	Tools, etc.,	Norfolk, Va.	Oct. 27
Oct. 29.	Graveling streets,	Memphis, Tenn.	Oct. 27
Oct. 29.	Flagstone walks,	Wilkes-Barre, Pa.	Oct. 27
Oct. 29.	Electric light plant,	Herkimer, N. Y.	Oct. 27
Oct. 29.	Electric plant,	Brementon, Wash.	Oct. 27
Oct. 30.	Church building,	Lewiston, Pa.	Oct. 27
Oct. 30.	School building,	Chehalis, Wash.	June 16
Oct. 31.	Metal work,	Mobile, Ala.	Oct. 13
	Advertised, Eng. News, Oct. 13 and 20.		
Oct. 31.	Pumping engine (3,000,000 galls.),	Marietta, O.	Oct. 20
Oct. 31.	Electric bonds,	Winnebago City, Minn.	Oct. 20
Oct. 31.	Heating, etc.,	New York.	Oct. 27
Oct. 31.	City hall superstructure,	Freeport, Ill.	Oct. 27
Oct. 31.	Smoke preventers (3),	St. Paul, Minn.	Oct. 27
Oct. 31.	Sewers,	New Haven, Conn.	Oct. 27
Oct. 31.	Sewers,	Toledo, O.	Oct. 27
Oct. 31.	Paving and curbing,	Dayton, O.	Oct. 27
Oct. 31.	Macadamizing, etc.,	Findlay, O.	Oct. 27
Oct. 31.	Buckeye paving,	Toledo, O.	Oct. 27
Oct. 31.	Brick paving, etc.,	Ottumwa, Ia.	Oct. 27
Oct. 31.	Armory building,	Brooklyn, N. Y.	Oct. 27
Oct. 31.	Railway supplies,	London, England.	Oct. 27
Oct. 31.	Heating and plumbing,	Barre, Vt.	Oct. 27
Nov. 1.	Sewers (8-in.),	Saratoga Springs, N. Y.	Oct. 27
Nov. 1.	Capitol building,	Phoenix, Ariz.	Oct. 27
Nov. 1.	Water pipe, etc.,	Lancaster, O.	Oct. 27
Nov. 1.	Bridge,	Lincoln, Cal.	Oct. 27
Nov. 1.	Road bonds,	Utica, N. Y.	Oct. 20
Nov. 1.	Water pipe (20,000 ft.),	Spring Lake, N.J.	Oct. 20
	Advertised, Engineering News, Oct. 20.		
Nov. 1.	Pipe sewers (4,600 ft.),	Spring Lake, N.J.	Oct. 20
	Advertised, Engineering News, Oct. 20.		
Nov. 1.	Arc lighting,	Hull, Que.	Oct. 20
Nov. 1.	Hospital plans,	New York, N. Y.	Oct. 13
Nov. 1.	Bridge,	Corydon, Ia.	Oct. 13
Nov. 1.	Artesian well,	Jamestown, N. Dak.	Oct. 13
Nov. 1.	Sidewalks,	Terre Haute, Ind.	Oct. 13
Nov. 1.	Court house,	Garner, Ia.	Sept. 8
Nov. 1.	School building,	St. Louis, Mo.	Sept. 22
Nov. 2.	Heating, etc.,	Baltimore, Md.	Oct. 20
Nov. 2.	Electric lighting, etc.,	Baltimore, Md.	Oct. 20
Nov. 2.	Harbor work,	Stockton, Cal.	Oct. 20
Nov. 2.	Garbage crematory,	Fort Thomas, Ky.	Oct. 27
Nov. 2.	Fire department building,	New York.	Oct. 27
Nov. 2.	Temporary sewer,	New York, N. Y.	Oct. 27
Nov. 2.	Electric plant,	Winnebago City, Minn.	Oct. 27
Nov. 3.	Repairing asphalt,	Scranton, Pa.	Oct. 27
Nov. 3.	Electric light fixtures,	Hudson, N. Y.	Oct. 27
Nov. 3.	U. S. building,	Chicago, Ill.	Oct. 20
	Advertised, Eng. News, Oct. 20 and 27.		
Nov. 3.	Roads, walks, etc.,	Fort Hancock, N. J.	Oct. 20
Nov. 3.	Highway work,	Pittsburg, Pa.	Oct. 20
Nov. 3.	Repairing sidewalks,	Cincinnati, O.	Oct. 13
Nov. 4.	Piers and abutments,	Coshocton, O.	Oct. 13
Nov. 4.	Buckeye paving, etc.,	Dayton, O.	Oct. 27
Nov. 4.	Railroad grading (35 mls.),	Denmark, N. C.	Oct. 27
	Advertised, Eng. News, Oct. 27 and Nov. 3.		
Nov. 4.	Roof of armory,	New York, N. Y.	Oct. 27
Nov. 5.	Ocean Ave. improvement,	New London, Conn.	Oct. 27
Nov. 5.	Substructure,	Center St., Cleveland, O.	Oct. 13
Nov. 5.	Sewers,	East Cleveland, O.	Oct. 13
Nov. 5.	School building,	Marion, O.	Oct. 20
Nov. 5.	Wells and shafts,	Gila County, Ariz.	Oct. 20
Nov. 7.	Bridge at Curtis' Ford,	Wilkesboro, N. C.	Oct. 20
Nov. 7.	Viaduct superstructure,	Cincinnati, O.	Oct. 13
Nov. 7.	Bridge, Webster St.,	Oakland, Cal.	Oct. 13
Nov. 7.	Plank sidewalks, (1 year),	Cincinnati, O.	Oct. 13
Nov. 7.	Wooden bridge (190 ft. long),	Magnolia, Miss.	Oct. 13
Nov. 7.	Brick paving,	Toledo, O.	Oct. 13
Nov. 7.	Improving electric plant,	Topeka, Kan.	Sept. 22
Nov. 7.	Sewers,	Albany, N. Y.	Oct. 27
Nov. 7.	Sewers,	Wabash, Ind.	Oct. 27
Nov. 7.	Boilers for water-works,	St. Paul, Minn.	Oct. 27
Nov. 7.	Water flume,	New Whatcom, Wash.	Oct. 27
Nov. 7.	Water-works franchise,	San Bernardino, Cal.	Oct. 27
Nov. 7.	Arc lighting,	Lebanon, Pa.	Oct. 27
Nov. 8.	Electric plant, etc.,	Wynne, Ark.	Oct. 20
Nov. 8.	Water-Works, etc.,	Wynne, Ark.	Oct. 20
Nov. 8.	Surveys,	Olympia, Wash.	Oct. 20
Nov. 9.	Paving, etc.,	Cohoes, N. Y.	Oct. 20
Nov. 9.	Improving drawbridge,	Camden, N. J.	Oct. 20
	Advertised, Engineering News, Oct. 20.		
Nov. 9.	School building,	Fort Sill, Okla.	Oct. 20
Nov. 9.	Electric light plant,	Toronto, Ont.	Oct. 6
	Advertised, Engineering News, Oct. 6.		
Nov. 9.	Electric energy,	Toronto, Ont.	Oct. 6
	Advertised, Engineering News, Oct. 6.		
Nov. 9.	Bridge, Sable Creek,	San Jose, Cal.	Oct. 13
Nov. 9.	Electric light franchise,	Visalia, Cal.	Oct. 27
Nov. 10.	Water supply,	Belem, Brazil	Sept. 22
Nov. 10.	Water bonds, ($30,000),	New Richmond, O.	Oct. 20
Nov. 10.	College building,	Cincinnati, O.	Oct. 20
Nov. 10.	Court house bonds,	Doniphan, Mo.	Oct. 20
Nov. 10.	Fish hatchery, etc.,	Spearfish, S. Dak.	Oct. 20
Nov. 10.	Electric bonds,	New Richmond, O.	Oct. 20
Nov. 11.	Bridges, (3),	Olivet, S. Dak.	Oct. 13
Nov. 11.	Bridges (2),	Colfax, Wash.	Oct. 27
Nov. 12.	Water bonds ($30,000),	Reno, N. Mex.	Oct. 13
Nov. 12.	Buildings ($106,250),	Mare Island, Cal.	Oct. 20
Nov. 12.	Dredging,	Port Royal, S. C.	Oct. 20
Nov. 12.	Road work,	Cincinnati O.	Oct. 27

Nov. 14. Grading a road, Santa Barbara, Cal. .....Oct. 27
Nov. 14. Steel bridge (100 ft.), Houston, Tex. .....Oct. 20
Advertised, Eng. New, Oct. 20 to Nov. 3.
Nov. 14. Removing wreck, Rockland Harbor, Me.....Oct. 13
Nov. 15. Industrial school, Ellendale, N. Dak.....Oct. 13
Nov. 15. Water-works addition, Seattle, Wash.....Sept. 22
Advertised, Eng. News, Sept. 22 to Nov. 10.
Nov. 15. Jail work, San Saba, Tex.....Sept. 29
Nov. 15. Electric lighting, Greensboro, N. C. .....Oct. 6
Nov. 15. Dredging bay, Coos Bay, Ore. .....Oct. 20
Advertised, Eng. News, Oct. 20 to Nov. 10.
Nov. 15. Water-works, Rock Hill, S. C.....Oct. 27
Advertised, Eng. News, Oct. 27 and Nov. 3.
Nov. 16. Reformatory building, Mansfield, O. .....Oct. 27
Nov. 16. Electric plant, Knowle, England.....Oct. 27
Nov. 16. Electrical machinery, Cleveland, O.....Oct. 20
Nov. 16. Electric lighting, Camden, N. J.....Oct. 13
Advertised, Eng. News, Oct. 13 to 27.
Nov. 17. Hospital building, Siletz, Ore. .....Oct. 27
Nov. 17. Road in Sage Canyon, Cal. .....Oct. 27
Nov. 21. Brick sewers, Toledo, O. .....Oct. 27
Nov. 21. Naval supplies, St. Augustine, Fla. .....Oct. 27
Advertised, Eng. News, Oct. 27 to Nov. 17.
Nov. 21. Government bldgs (8), Sophia, Bulgaria....Sept. 29
Nov. 22. U. S. building, Norfolk, Va. .....Oct. 27
Advertised, Eng. News, Oct. 27 and Nov. 3.
Nov. 25. Water pipe, etc., Honolulu, H. I. .....Oct. 27
Nov. 26. Crane, Port Royal, S. C. .....Oct. 27
Nov. 26. Boat shelter roof, Mare Island, Cal. .....Oct. 20
Nov. 28. Removing wreck, Portchester Harbor, N. Y.Oct. 27
Nov. 30. Dry dock, Algiers, La. .....Oct. 20
Nov. 30. Bridge, etc., and plans, Moline, Ill.....Oct. 6
Advertised, Eng. News, Oct. 6 and 13.
Dec. 1. Electric lighting, Sumter, S. C. .....Oct. 6
Dec. 1. Electric light plant, Clinton, Ill. .....Oct. 13
Dec. 2. Arc lighting, Asheville, N. C. .....Oct. 13
Dec. 5. Pumping engine, Oil City, Pa. .....Oct. 27
Advertised, Eng. News, Oct. 27 to Nov. 10.
Dec. 7. Changing Van Buren St. bridge, Chicago, Ill. Oct. 20
Dec. 15. Storm sewers, Denver, Colo.....Oct. 13
Dec. 31. Plans for station, etc., Stockholm, Sweden. June 23
Jan. 1. City hall plans, Bridgeport, Conn.....Aug. 18
Jan. 2. Bridge, Quebec, Que. .....Sept. 29
Advertised, Eng. News, Sept. 29 and Oct. 6.
Jan. 2. Arc lighting, Vincennes, Ind. .....Oct. 27
Jan. 6. Water-gas plant, Johannesburg, So. Africa..Oct. 27
Jan. 6. Extension, electric plant, Johannesburg, S.Af. Oct. 27
Feb. 10. Jail building, Keyser, W. Va.....Sept. 29
No date. School building, Somerville, N. J.....Oct. 20
No date. Memorial hall, Detroit, Mich.....Oct. 27

RAILWAYS.

ALABAMA & FLORIDA.—P. J. Gantt, River Falls, Ala., informs us that all of the grading is about completed and ready for track-laying on this proposed line from Georgiana to River Falls, a distance of 30 miles. The capital necessary for completion has been secured. R. M. Quigley & Co., of St. Louis, Mo., are the contractors. Pres., E. L. Moore, River Falls, Ala.; Ch. Engr., Charles Seymour, Georgiana, Ala.

ALLEGHENY JUNCTION.—This company was incorporated in Pennsylvania, Oct. 19, with a capital stock of $5,000, to construct a connecting link of steam railway in Pittsburg. The incorporators are: A. H. Keith, Pres.; V. L. Crabbe and W. P. Potter, of Pittsburg; J. W. Anderson, Allegheny, Pa.

ATCHISON, TOPEKA & SANTA FE.—Press reports state that this company has purchased a controlling interest in the San Francisco & San Joaquin Valley Ry., and that a new line will be built from Mojave to Bakersfield, Cal., parallel to the Southern Pacific Ry., and thus obtain an entrance into San Francisco. If this project be carried out, it is thought that the construction of the proposed line between Bakersfield and Los Angeles will be abandoned. Robert Watt, 1st Vice-Pres., San Francisco & San Joaquin Valley, San Francisco, may give further information.

ATLANTIC COAST LINE.—Bids are asked by this company until Nov. 4 for the grading and trestle work on the extension of the Charleston & Western Carolina branch from Denmark to Robbins, N. C., a distance of 34.7 miles, as stated in our advertising columns. F. Gardner, Ch. Engr., Wilmington, N. C.

CANTON, ABERDEEN & NASHVILLE.—C. D. Smith, Birmingham, Ala., informs us that all the surveys have been made and practically all of the right of way obtained for this new line between Aberdeen, Miss., and Winfield, Ala., via West Point, a distance of 68 miles. C. D. Smith & Co., of Birmingham, have the contract for the bridging and ties for the first ten miles, which has been sub-let; good progress is being made on the work. David Sloan, Ch. Engr., Chicago, Ill.

CHARLESTON, CLENDENNIN & SUTTON.—Press reports state that $3,000,000 of this company's bond have been disposed of to an English syndicate, and the proposed extension will be built at once. The projected route is from Clay Courthouse to Sutton, W. Va., a distance of about 48 miles. J. Wainwright, Gen. Mgr., 14 South Broad St., Philadelphia, Pa.

DALLASTOWN.—D. F. Lafean, Pres., York, Pa., informs us that a preliminary survey has just been completed for this proposed 1 1-10-mile line of railway near Dallastown, Pa., and that the location will probably be made this week and the work then rushed to completion. The incorporation of this comapny was noted in our last issue.

EASTMAN & OCMULGEE RIVER.—This company has been organized, according to reports, with a capital stock of $25,000, to construct about 18 miles of railway from Eastman to a connection with the Georgia & Alabama Ry. J. B. Caldwell, Eastman, Ga., is interested.

ENGLAND.—Bids are asked until Oct. 31 for supply of (a) Fairlie engines, (b) flexible buffers and screw couplings, for the Burma Railways Co., Ltd. Address the company at 76 Gresham House, Old Broad St., E. C., London.

FLORIDA.—Strickland & Wesley, Point Washington, Fla., inform us that nothing has yet been done towards constructing a railway through their timber lands, but that they are willing to give a free right of way and to assist in building such a line.

GREAT NORTHERN.—Reports state that work has been commenced at Cambridge, Minn., on the Eastern Minnesota cut-off intended to shorten the distance between St. Paul and Duluth by about 30 miles. It is expected that about 60 miles of new track will be built for use next year.——Surveys have been made for a possible extension of this line from a point near Wanatchee, Wash., to Lakeside, at the southern end of Lake Chelan. N. D. Miller, Ch. Engr., St. Paul, Minn.

GUADALOUPE VALLEY.—It is announced that the stockholders of this company have authorized the issuance of $16,000 in bonds to the mile, and that track-laying will commence from O'Connersport, Tex., within 30 days. The line will pass through Yoakum, Tex., which has granted the required bonus. Pres., Uriah Lott, Victoria, Tex.

GULF, TEXAS & NORTHERN.—L. W. Lloyd, Vice-Pres., Marshall, Tex., informs us that the surveys have been made and the right of way procured and completed from Orange to Marshall. Capital for construction has been secured, but no contracts have yet been awarded. The proposed route is from Orange to Marshall, via Jasper, San Augustine, Center, Tenaha and Carthage, a distance of 200 miles. Pres., D. C. Plumb, Marshall; Ch. Engr., C. S. Breckenridge, Orange.

HAWKINSVILLE, FITZGERALD & GULF.—Reports state that an application will be made to the next legislature of Georgia for a charter for this proposed railway from Hawkinsville to the Gulf of Mexico, via Rochelle and Fitzgerald, Ga. R. V. Bowen, of Lulaville, Ga., and P. H. Fitzgerald, of Indianapolis, Ind., are said to be interested.

HOLLY RIVER & ADDISON.—George A. Hechmer, Palmer, W. Va., informs us that surveys have been completed for the present, and that all the right of way has been practically obtained. The work is being done by the company, which has completed from ten to twelve miles of grading and two miles of track-laying. The projected route is from Palmer to Addison, via Holly, Removal, Diana and Jumbo, a distance of 23 miles. Pres., John T. McGraw, Grafton, W. Va.; Ch. Engr., T. G. Baylor. Palmer, W. Va.

JONESBORO, LAKE CITY & EASTERN.—W. H. Stevens, Audr., Jonesboro, Ark., informs us that 20 miles of this proposed line from Nettleton to Monette, via Jonesboro and Lake City, Ark., 30 miles, have been completed, and that the ten remaining miles are under construction. All the work is being done by the company. Pres., J. E. Jones; Ch. Engr., C. M. Ferguson, both of Jonesboro.

MINNEAPOLIS, ST. PAUL & SAULT STE. MARIE.—Thomas Greene, Ch. Engr., Minneapolis, Minn., informs us that this company has just completed an extension from Kulm, La Moure county, to Hebard, at the north line of Emmons county, a distance of 77 miles. The new line was to be opened for traffic on Oct. 17. Pres., Thomas Lowry, Minneapolis.

MONROE.—Wm. B. Reily, of the Monroe Ry. & Construction Co., Monroe, La., informs us that the locations have been completed for this proposed line from Monroe to Nachitoches, via Winnfield, La., a distance of 80 miles. The capital for construction, however, has not yet been secured, and until it has been, work will not be commenced. Pres., L. D. McLane, Monroe; Ch. Engr., Ira W. Sylvester, Alexandria, La.

NASHVILLE, CHATTANOOGA & ST. LOUIS.—Contracts have been let, according to reports, for constructing a 6-mile extension of this line on its Middle Tennessee & Alabama division. This company has reballasted about 100 miles of road and rebuilt about four miles of trestle work.

NATCHEZ & GULF.—L. N. Dalgarn, Natchez, Miss., informs us that, at the last meeting of this company, the president was authorized to issue bonds and to place mortgages on the road for the construction of the same. Surveys have all been made and considerable right of way obtained, and there are fair prospects of the line being built at once. The route is from Natchez via Lumberton, Miss., to a connection with Gulfport, over the Gulf & Ship Island R. R. Pres. Hardy, Meridian, Miss., may be addressed.

NEW YORK & OTTAWA.—F. D. Anthony, Ch. Engr., Cornwall, Ont., informs us that the track on the 15-mile extension of this line from Moira, N. Y., north to the St. Lawrence River, has been laid and was put in operation on Oct. 17. The bridge over the north channel of the river lacks only the north cantilever to complete it, and the work of removing the wrecked spans of the south channel bridge is being pushed with a view to the earliest restoration possible; each bridge is 1,125 ft. in length. In addition to the old line between Moira, on the Ogdensburgh & Lake Champlain Ry., and Tupper Lake, 56½ miles, the company now operates the above extension to the St. Lawrence River and, on the Canadian side, a new line from Cornwall to Ottawa, Ont., 53 miles. An extension from Tupper Lake to North Creek, a distance of about 50 miles through the Adirondack region is also contemplated, as a connection with New York can thus be made via Saratoga, rather than as at present via Utica.

NORTON BAY & YUKON RY. & NAVIGATION.—F. A. Hill, Ch. Engr., National Bank Bldg., Seattle, Wash., informs us that a preliminary survey line for the 70-mile railway which this company proposes to build in the Yukon district has been run from a point 45 miles northeast of St. Michael, Alaska, to the Yukon River, 35 miles below Nulato. The United States government gives right of way. An English syndicate has promised to furnish necessary capital so as to construct the line in 1899. Pres., E. A. Gardner, Seattle.

OHIO.—We are informed that the following bids were received by the commissioners of water-works of Cincinnati, Oct. 18, for the construction of a railway track and delivery of track material on the water-works grounds; all local bidders; Clk., Chas. S. Roth:

Quantities.		Edw. W. White.	Louis Drach.	J. J. Smith.
Track on graded roadbed	4,200 lin. ft.	$6,048	$7,560	$8,610
On viaduct	650 " "	787	748	878
Switches, complete	2 sets	390	125	347
Steel rails	4 tons	88	100	102
Joints	15 pairs	18	9	7
Spikes	300 lbs.	9	6	6
Cross ties	75	37	75	59
Total		$7,378	$8,623	$10,008

OKLAHOMA.—A charter has been received by C. Richards, S. James, T. H. Martin and W. W. Gregory, of Tonkawa, Okla., and C. F. Leech, of Arkansas City, Kan., to organize a construction company to extend the railway from Braman to Tonkawa, by way of Kay Center. It is understood that the work of building will begin soon. The new road will open to outside trade a large wheat belt, which, heretofore, was compelled to haul its product by wagon to the Atchison, Topeka and Santa Fe Ry., a distance of 45 miles.

OMAHA BRIDGE & TERMINAL.—Reports state that this company is planning to extend its lines to complete connection with all of the other roads entering Council Bluffs, Ia. J. A. L. Waddell, Ch. Engr., Kansas City, Mo.

PORTSMOUTH & YORKTOWN.—This company has been incorporated, with a capital stock of $25,000, to construct a railway from Portsmouth to Yorktown, O. The incorporators are L. D. York, B. F. Vincent, and others, with offices at Portsmouth.

RICHMOND, PETERSBURG & CAROLINA.—Gen. Jas. S. Negley, Vice-Pres. and Gen. Mgr., 141 Broadway, New York, informs us that the first 20 miles south of Petersburg, Va., has just been completed and will be operated as a freight and passenger line without delay. Along this new route there is much valuable timber land, and it is reported that a number of new saw mills have already been established. The completion of the entire line, to a connection with the Seaboard Air Line at Ridgeway, N. C., will be pushed with energy.

ST. LOUIS, KANSAS & SOUTHWESTERN.—Reports state that this railway was sold at auction at Arkansas City, Kan., Oct. 22, to Samuel Baker, of Hamilton, O., representing the creditors, at $150,000. The line is 60 miles long, running from Arkansas City to Anthony. Francis S. Eaton, Gen. Mgr., Arkansas City.

TACOMA & COLUMBIA RIVER.—This company was reorganized in Tacoma, Wash., Oct. 21, according to reports, with the folowing officers: Pres. and Gen. Mgr., William Bailey, 66 Broadway, New York; First Vice-Pres., and Asst. Gen. Mgr., Samuel Collyer; Secy., E. G. Dorr; Treas., Calvin Phillips; Ch. Engr., W. O. Holliday; Supt., E. G. Dorr. It is said that new capital has been secured and that construction work will be rushed at once.

WILMINGTON & NORTHERN.—It is announced that this railway has been bought by the Philadelphia & Reading Ry. Co., and not the Baltimore & Ohio R. R. Co., as previously stated.

STREET AND ELECTRIC RAILWAYS.

CARIBOU, ME.—Reports state that a preliminary survey is being made for the location of an electric railway from Caribou to Van Buren, and that John P. Donworth, of Caribou, is interested.

WESTBORO, MASS.—The Westboro, Hopkinton & Milford St. Ry. Co. has been organized with a capital stock of $80,000, to construct an electric railway eight miles in length, via Woodville and Hopkinton. It is expected to obtain the necessary franchises and to begin work in time to operate the line next summer. The temporary board of directors comprise Melvin H. Walker, Westboro; Frank W. Wood, Hopkinton; Edgar K. Ray, Franklin; Wm. S. Reed, Leominster, Mass.; Wm. H. Tylee, Worcester, Mass.; William S. Reed, Leominster; Joseph G. Ray, and Edgar K. Ray, Franklin, Mass.

BRISTOL, R. I.—We are informed that the surveys have been completed, the right of way obtained and the contract awarded to the Lap Joint Railway Track Co., 11 Broadway, New York, on Oct. 11, for the construction of the proposed 4-mile electric railway from Ferry Fall River, Mass., to Mount Hope, and from Mount Hope to Bristol, for the Bristol Land & Investment Co. Work is to be completed and road equipped by May 1. Pres., W. B. D'Wolf, Bristol; Ch. Engr., J. A. Latham, Providence, R. I.

CATSKILL, N. Y.—The board of trustees has granted permission to the Catskill Electric Ry. Co. to lay tracks on the village streets provided that a 70-lb. T-rail 4½ inches in height be used.

MARION, N. Y.—We are informed that the surveys have been made for the proposed Wayne Central R. R., between Marion and Palmyra, six miles. The company has not yet been incorporated, but will probably be soon. Electric motive power will be used. Le Grand Brown, Ch. Engr., Rochester, N. Y.

MOUNT VERNON, N. Y.—It is reported that the electric railway between this city and Yonkers will be double tracked at once, owing to greatly increased traffic over the line. This line is said to be under the control of the Union Traction Co. of New York.

NEW YORK, N. Y.—Reports state that compressed air, and not the underground system of electricity, will be used as the new motive power on the 28th and 29th St. lines of the Metropolitan St. Ry. Co.

NYACK, N. Y.—B. F. Sweeten & Son, Camden, N. J., are reported to have been awarded the contract for the necessary track-laying, trestle work and excavation for the proposed line of the Nyack Traction Co., to cost about $35,000. W. G. Mendenhall & Co., Philadelphia, Pa., received the contract to furnish the cars and rails, to cost about $40,000. Other contracts were to be awarded. The power house will be a brick structure, having an engine room, 60 × 55 ft., and a boiler room, 30 × 55 ft., and two 300-HP. engines will be installed. The general contract is held by Isaac A. Walker & Son, Stephen Girard Bldg., Philadelphia, Pa. Pres., Henry C. Howard, Chester, Pa.

ROME, N. Y.—A plan is under consideration for the organization of a new corporation to supplant the Rome City St. Ry. Co. and to build and operate an electric railway system in and about the city on an extensive scale. The old line is 6.7 miles in length and is operated by horse power. J. G. Lieper, G. W. Chance and T. Blume, all of Philadelphia, Pa., are said to be interested. Pres., John S. Wardell, 115 John St., Rome.

PERTH AMBOY, N. J.—The Perth Amboy R. R. Co. was incorporated in New Jersey, Oct. 24, with a capital stock of $30,000, with all paid in, to construct a railway in this town. The incorporators are: Leonard Lewisohn, Adolph Lewisohn, Charles J. Hittenberg, of New York; James C. McCoy, Geo. J. Haney, Wm. E. Tobey, C. P. Sells, and Wesley J. Havell, of Perth Amboy. Principal office at 258 Smith St., Perth Amboy.

WOODBURY, N. J.—The National Park Association is said to be about to award contracts for the construction of a trolley line from the railway station to National Park.

ALLENTOWN, PA.—We are informed that no arrangements have yet been made for the construction of the proposed electric railway of the Inland Traction Co., whose incorporation was noted in our last issue, from Sellersville to Landsdale, via Telford, Souderton and Hatfield, a distance of 12 miles. Pres., John H. Pascoe, of Allentown. Address J. B. Aldefer, Souderton, Pa.

FREEMANSBURG, PA.—Warren R. Roberts, of Freemansburg, informs us that Pascoe & Crilly, contractors, of Allentown, Pa., have made an application for the right of way through this town. If granted, it is expected to build an electric line to connect with that of the Allentown Traction Co., at South Bethlehem. The ordinance has passed its first reading.

JOHNSTOWN, PA.—N. F. Thompson, Secy. of Board of Trade, informs us that the right of way for the proposed 8-mile electric railway of the Johnstown & Somerset Traction Co. has been secured for that portion outside of the city limits. Capital for construction has been secured and work will commence as soon as city franchise has been granted, which is expected within the next 30 days. Pres., Morris Wolf, Johnstown, Pa.

PHILADELPHIA, PA.—It is announced that the construction of the Philadelphia, Castle Rock & West Chester Electric Ry. is being pushed forward with all haste, and tracks are now laid right up to Milltown. Within three or four weeks it is expected that the rails will have been laid right to the terminus at Gay and Matlack St., West Chester.

RICHMOND, VA.—G. E. Detwiler, Chn., of Truxillo, Va., informs us that the proposed Richmond & Tidewater Ry. will be owned largely by the counties through which it is expected to pass, and in consequence no election will be held to appoint officers until the subscriptions required are voted by the counties at the November elections. The length of the line will be about 120 miles, though permanent surveys have not yet been made; motive power will be electricity.

ALLIANCE, O.—Hugh Berkley and C. W. Kieff, of Alliance, are said to be interested in the construction of an electric railway to be built between Alliance and Akron, which is to enter Akron over the lines of the Akron St. Ry.

CLEVELAND, O.—E. G. Tillotson, of the Cleveland Trust Co., Cleveland, informs us that the Cleveland & Eastern R. R. Co. has secured 20 miles of private right of way and has eight additional miles promised for its proposed electric line from Cleveland to Chardon, Burton and Chagrin Falls, via Fullertown, O., a distance of 43 miles. Grading has been completed for 12 miles, and 14 miles are under construction. There have been 50,000 ties ordered, delivery to commence Nov. 1, also the rails, rail connections and spikes. Pres., H. P. McIntosh, the Guardian Trust Co.; Ch. Engr., W. C. Jones, Wade Bldg., of Cleveland.

PORTAGE, O.—The council has granted a franchise for the proposed electric railway which is to be built at once by Contractor Leach, Monroe, Mich.

CARTHAGE, MO.—Frank E. Moore, of Carthage, informs us that the controlling interest in the Southwest Missouri Electric Ry. Co., amounting to $336,200, has been sold to Pennsylvania parties. The new directors are, A. H. Rogers, Pres., Joplin, Mo.; E. Z. Wallower, A. G. Knisseley, E. C. Felton, H. L. Hershey, and others, of Harrisburg, Pa.

BEAUMONT, TEX.—The city council on Oct. 18 passed an ordinance granting to John C. Ward and others a 50-year franchise for an electric railway on the streets of Beaumont.

VICTOR, COLO.—Reports state that the motive power on the Gold Belt Line, now about eight miles in length, will soon be changed from steam to electricity, power to be derived from the power plant in course of construction at Goldfield.

SANTIAGO, CUBA.—Press reports state that a franchise for building an electric railway from Santiago to the cemetery and to El Caney has been granted by General Wood to prominent local business representatives.

HONOLULU, HAWAII.—The Honolulu Rapid Transit & Land Co. has recently been organized, according to reports, for the construction of an electric railway. Pres., L. A. Thurston; Vice-Pres., J. B. Castle; Secy., J. A. Gilman; Gen. Mgr., C. G. Bellentyne.

PERTH, WESTERN AUSTRALIA.—We are informed that J. G. White & Co., Engineers and Contractors, 29 Broadway, New York, are preparing plans for a car barn and power house for a company with offices at London, England, which proposes to construct electric tramways at Perth. J. G. White & Co. will also superintend the construction work, and will purchase for the company rails and other necessary materials for track construction and equipment. Babcock & Wilcox will furnish the boilers; the Robb Engineering Co., Amherst, N. S., tandem compound condensing engines; J. G. Brill & Co., cars and trucks. The rails and special work will be of American manufacture, but have not yet been purchased; the rails will be 6-in. and 9-in. girder sections; the special work will be 9-in. girder sections. Part of the road will be paved with Jarrah wood blocks. Contracts for the structural work, including roof trusses for buildings, will be let in the United States as soon as plans have been prepared. Ten miles of single track, with turnouts, will be built at once. The extensions, amounting to over ten miles additional of single track, will then be built, and additional cars and power house equipments will be shipped. The single track will be laid with a view of double tracking a large part of the system in the near future.

ELECTRIC LIGHT AND POWER.

WINN, ME.—M. F. Scott, Clk. Winn Water & Power Co., recently incorporated, writes us that nothing has been done as yet in regard to the proposed plant.

BEVERLY, MASS.—Luther S. Herrick, Cy. Clk., writes us that a report for a municipal plant has been made to one branch of the council. It will have to be accepted by both branches of the council for two successive years and then submitted to the voters.

BOSTON, MASS.—We are informed that the following bids were received Oct. 22 for furnishing the machinery and installing the electric plant at Grover's Cliff, Mass., and at Nantasket Head, Mass.: all bidders, of Boston, except N. J. Foundry and Machine Co.; U. S. Engr., Col. S. M. Mansfield, Boston:

Bidder.	Grover's Cliff.	Nantasket Head.
Electric Storage Battery Co., 60 State St.*	$1,468	$1,468
General Electric Co., 180 Sumner St.	3,295	3,650
G. M. Angier & Co., 64 Federal St.†	2,385	2,610
	2,315	2,540
Bibler-White Co., 49 Federal St.	3,659	3,434
	3,709§	3,484
Almon, Sargent & Conant, Equitable Bldg.	3,925	4,175
N. J. Foundry & Machine Co., New York‡	3,549	3,772
	3,395	3,620
	3,972	4,392
Lord Electric Co., 181 Tremont St.‖	4,074	4,494
	3,875	4,295

*Incomplete; storage battery only. †Electric storage battery and Hatch storage battery, respectively. §Cell terminals connected by burning lead. ‡Steam engine and oil engine, respectively. ‖Westinghouse apparatus and Hatch apparatus, respectively.

SALEM, MASS.—The council is considering the question of building a municipal plant. The present contract expires at the end of the year.

SOMERVILLE, MASS.—Councilman Jas. F. Davlin writes us that the matter of constructing a municipal plant has been advanced one stage by its being adopted by one branch of the council. If it passes next year's board it will go to the legislature, and if favored there it will be submitted to the voters for their approval.

CROMWELL, CONN.—We are informed that nothing definite has yet been done in regard to the proposed plant. A little later a plant may be established in connection with the water-works of the Cromwell Water Co. Engrs., Shedd & Sarle, Providence, R. I., and Cromwell, Conn.

CHARLOTTE, N. Y.—We are informed that the following bids were received Oct. 15 for furnishing the machinery for the electric plant, as advertised in Engineering News: Westinghouse Electric & Mfg. Co., Pittsburg, Pa., with Atlas engines, Fairbanks belting and shafting, 16,000 alternations incandescent dynamo, $8,050; 7,200 alternations incandescent dynamo, $8,200; Machinist Supply Co. belting and shafting, 16,000 alternations, $8,300; 7,200 alternations, $85,450; Machinists' Supply Co., Rochester, N. Y., belting and shafting only, $908; Fort Wayne Electric Corporation, Fort Wayne, Ind., station equipment (dynamo No. 7) and arc lamps, $3,562; and F. P. Little Electric Construction & Supply Co., Buffalo, N. Y., engines, $1,325; belting and shafting, $1,070; dynamo and lamps, $3,975; line work, $3,850; total, $10,220. The contract was let to the Westinghouse Co. Engrs., Stanwix Engineering Co., Rome, N. Y.

CHATHAM, N. Y.—We are informed that J. M. Klingelsmith, Pres. Chatham Electric Light, Heat & Power Co., has purchased the mill and water power of H. C. Spengler on Kinderbook Creek and will develop about 1,500 HP. for power purposes and will operate his plant in Chatham from there.

HERKIMER, N. Y.—Bids are asked until Oct. 29 for installing an incandescent light plant, to cost about $13,000. The plant will be completed Dec. 20. Clk. Municipal Comn., E. W. Sluyter; Pres., C. R. Snell.

HUDSON, N. Y.—Bids are asked until Nov. 3 for furnishing and installing electric light and gas fixtures at the state armory building. State arch., I. G. Perry, Albany and Binghamton, N. Y. Address J. Rider Cady, 10 South 4th St., Hudson.

MIDDLEPORT, N. Y.—Our correspondent informs us that the village trustees have decided to contract for a plant. A new law authorizes them to arrange for an annual expenditure to a certain limit, and it is believed that the lights can be supported within this limit.

OXFORD, N. Y.—The Binghamton Electrical Construction Co., Binghamton, N. Y., has been awarded the contract for wiring the dormitory to be erected at the Woman's Relief Corps Home.

TRENTON ,N. J.—John T. Dryden, Pres. Prudential Insurance Co., Newark, N. J.; Col. A. R. Kuser and Judge R. S. Woodruff, Trenton, are reported as interested in the proposed power plant on the Delaware River. Certain rights have to be purchased from the Trenton Water Power Co. and the Delaware River Improvement Co. The proposed wing dam will cost about $100,000.

LEBANON, PA.—Bids are asked until Nov. 7 for furnishing the city with 125 2,000-c. p. arc lights for a term of five or ten years from June 1, 1899. Chn. Police Com., Geo. B. Schock.

PHILADELPHIA, PA.—Wm. Dougherty, 1604 Sansom St., is reported as receiving bids for a 2-story addition to a power house.

BALTIMORE, MD.—We are informed that bids for putting in the proposed subways and conduits for the electric wires, except those of the trolley lines, will be asked in about two weeks; estimated cost, $1,000,000. Asst. Engr., Chas. G. Edwards; Ch. Engr., Chas. E. Phelps, Jr.

BALTIMORE, MD.—Local papers state that the court-house commission on Oct. 19 awarded the contract for dynamos, engines, etc., needed for lighting and electric power in the new court-house to Cohen & Staughton, Baltimore, at $12,226. Col. Theo. F. Lang, Supt. of Bldgs., has recommended that a plant be put in the basement of the city hall; estimated cost, about $30,000.

NEWPORT NEWS, VA.—The sale of the Newport News, Hampton & Old Point Ry. to the Newport News & Old Point Ry. Co., involving about $750,000, was arranged last week, and the title will pass in a few days. The new company recently purchased the electric light plant at Hampton and recently secured a franchise for the erection of a plant at Newport News also, and it is understood will purchase some electric light and power machinery.

HARPERS FERRY, W. VA.—John A. Liners, Gettysburg, Pa., has been granted a franchise. The plant will be completed in December.

ASHEBORO, N. C.—John T. Moffit is reported as interested in the proposed plant.

DURHAM, N. C.—V. Ballard, Mgr. Durham Electric Lighting Co., writes us that the company will put in additional 1,200-light alternator and 30-light arc dynamo; present light-house will be enlarged. The dynamos have already been purchased and the work begun at once. One plant furnishes both arc and incandescent lights, but no power.

GREENSBORO, N. C.—B. S. Johnson, J. H. Lee and H. P. Jones, Baltimore, Md.. and R. R. King, Greensboro, propose to build a plant in this place.

RALEIGH, N. C.—Geo. Allen, Secy. Chamber of Commerce, writes us that the matter of improving the plant is awaiting the subscription of about $50,000 before any work can be done. The property has 5,000 HP. ready for use.

SALISBURY, N. C.—The council has granted a franchise for a plant to F. E. Boordman, Salisbury. The power will be secured from the proposed power plant to be built on the Yadkin River, near Salisbury. The Baltimore Loan & Trust Co., Baltimore, Md., it is stated, will furnish the capital.

ORANGEBURG, S. C.—J. G. Wannamaker writes us that it will probably be 30 days before the council will be ready to receive bids for constructing the plant and waterworks, to cost about $40,000.

PORT ROYAL, S. C.—We are informed that the following bids were received by the bureau of yards and docks, Washington, Oct. 22, for constructing a plant at the naval station:

J. F. Buchanan, Philadelphia, Pa. .....(1) $18,888
McCay Engineering Co., Baltimore, Md.....(2) 20,979
Ft. Wayne Electric Corporation, Fort Wayne, Ind.. 19,700
J. P. Hall, New York, N. Y..... 19,900

(1) Also 11 conditional bids ranging from $19,181 to $21,633; (2) also three conditional bids ranging from $19,650 to $21,760.

KEY WEST, FLA.—J. L. Watrous, it is stated, has asked for a franchise for a plant, street-way and telephone plant.

MIAMI, FLA.—The question of building a plant is being considered, according to reports. J. A. McDonald may furnish information.

YAZOO, MISS.— The question of building a plant, waterworks, etc., is being discussed, according to reports.

FRANKLIN, TENN.—D. F. Gardner is reported to have purchased a site for a power house and light plant.

WOODSFIELD, O.—This place voted Oct. 22 on the question of building a plant.

WOOSTER, O.—An election will be held Nov. 8 to vote on the question of issuing $25,000 in bonds for a plant.

VINCENNES, IND.—Bids are asked until Jan. 2 for lighting the streets and public places with 2,000-c. p. arc lights for a period not to exceed 20 years from Dec. 25, 1900; also to furnish commercial and private lighting. Mayor, Geo. E. Greene.

JONESVILLE, MICH.—W. M. Wetmore, Village Clk., writes us that this place voted Oct. 10 to issue $10,000 in bonds for a plant and $18,000 for water-works. The plant will be operated in connection with the water-works. The pole line of the present lighting company was purchased. Up to Oct. 22 no engineer had been engaged to prepare plans and specifications.

ST. JOSEPH, ILL.—It is reported that the contract for the construction of the new electric lighting plant at St. Joseph, to furnish 500 incandescent lights, has been awarded to T. C. Reed, of St. Louis, Mo., at about $5,000. It is stipulated that the plant shall be completed and turned over to the village authorities in 90 days.

BALDWIN, WIS.—The Baldwin Electric Light Co. has been granted a 10-year franchise. The plant will be built at once. Arthur Peabody and Andrew Sabley are interested.

GREEN BAY, WIS.—The council will probably soon ask for bids for lighting the city with electricity, according to reports. The present contract with the Green Bay Gas & Electric Light Co. expires in May. Cy. Clk., W. Kerr.

TOWER, MINN.—The council has granted a 10-year extension to the franchise of the Tower Electric Light & Telephone Co. It is stated that a new plant will be built. Pres., Geo. H. Clayton.

WINNEBAGO CITY, MINN.—Bids are asked until Nov. 2 for installing a plant, to cost $8,000. Engr., W. J. Bonwell, 1013 Pioneer Press Bldg., St. Paul, Minn.; Pres. Council, A. C. Dunn.

EMMETSBURG, IA.—L. Stanhiner, Mayor, writes us that this city voted Oct. 20 to grant a franchise for a plant to John McNamara, Fulton, Ill.

HERINGTON, KAN.—J. T. Chapell, of Sherman, Tex., is reported to have leased the plant owned by this place.

WICHITA, KAN.—The council has been petitioned to call an election to vote on the question of issuing bonds for a plant. Mayor Roos may be addressed.

MARYVILLE, MO.—The question of a municipal plant and water-works is reported as being considered.

CREDE, COLO.—Press reports state that the plant, recently burned, will soon be rebuilt.

SHERIDAN, MONT.—The council is reported to have decided to build a plant.

BREMERTON, WASH.—Bids are asked until Oct. 29 for installing a plant at the naval station, Puget Sound, Bremerton; appropriation, $9,800. M. T. Endicott, Ch. Bureau Yards and Docks, Washington, D. C.

BAKERSVILLE, CAL.—Press reports state that the Kern-Rand Co. has filed on 10,000 ins. of water at the lower end of the Manache meadows, where a site for a dam has already been located. It is the intention to put in a 50-ft. dam, and impound the waters of Kern River, using the meadow as a reservoir and carrying the waters out by means of ditches, flumes, etc. The principal use to which the water will be put will be the generating of electricity. Electric power so developed will be conducted to Randsburg and Los Angeles and intermediate points.

VISALIA, CAL.—Bids are asked until Nov. 9 for the purchase of a franchise for operating wires along the roads of Tulare county. Clk., Wm. H. Hammond.

PROVO, UTAH.—J. B. Keeler, Chn. Com., writes us that R. M. Jones, Salt Lake City, is preparing plans and specifications for the proposed plant. It will have a capacity for about 80 2,000-c. p. arc lights and will be operated by water power. Bids will be asked in about a month.

OTTAWA, ONT.—Press reports state that the Metropolitan Electric Co., recently incorporated, has purchased a water power at Britannia, six miles above the city, for about $20,000. The capacity is understood to be 40,000 HP. Work will be completed next spring, but the company will not wait till then to sell light in the city, for it intends to use another power inside of two months to begin operations. A. B. Broderick, and T. Linsay, Ottawa, and Jas. Robinson, Montreal, Que., are interested.

CAMBELLTON, N. B.—Bids are asked until Oct. 26 for furnishing the machinery and installing a plant. Chn. Com., W. W. Doherty.

MONTREAL, QUE.—Barry, Ross & McRae, of Niagara Falls, Ont., are reported to have been awarded the contract for building the dams, canal, etc., for the proposed plant at the falls on the Jacques Cartier River, at the outlet to Lake St. Joseph, about 20 miles from Quebec. Work has already been begun and it is stated that it will be completed by March 15. A company, composed of New York capitalists has been organized, with a capital stock of $500,000.

TEPEC, JALISCO, MEX.—The city authorities are reported as negotiating for a plant for this city; population (1895), 12,000.

KNOWLE (FAREHAM), ENGLAND.—Bids are asked until Nov. 16 for furnishing and installing two engines and dynamos, equal to an output of 24,000 watts each, together with all necessary washing machinery, lathe, drill, motors, lamp installations, etc., required in connection with the centralization and increase of the light, heat and power ,generating plant at the County Lunatic Asylum, Knowle, Fareham. W. J. Taylor, County Surv., The Castle, Winchester.

QUITO, ECUADOR.—It is stated that Mr. Riendenburg, Consul for Ecuador, in Cincinnati, is securing information about motors and electrical machinery in general.

JOHANNESBURG, SOUTH AFRICA REPUBLIC.—Bids are asked by the general manager of the lighting department until Jan. 6 for furnishing a complete carbureted water gas plant. Specifications may be secured from Robt. Whyte & Co., 22 Bury St., St. Mary Axe., E. C., London, England.——Press reports state as follows regarding work in South Africa: A contract for the electric lighting installation for the Pretoria Theater has been placed with an American firm, the Johannesburg town council having been empowered to raise $750,000 for electric lighting purposes, two-thirds of which sum will be devoted to the purchase of new machinery, street extensions and other works; thus opportunity for the securing of some valuable orders should be afforded. A company with a capital of $25,000 has been formed at Ledysmith, Natal, for promoting the electric lighting of the town. Everything is required for this plant, and American competition will be considered. The electric lighting and tramway installation for East London and the electric lighting of the Grahamstown exhibition, besides the installation of an electrical equipment of a large building in Johannesburg and the electric plant for the Bank of Africa's branch at Lorenzo Marquez, are to be carried out by the firm of Reunent & Leuz, of Johannesburg.

NEW COMPANIES.—Northwestern Electric Heat & Power Co., Macon, Mo.: $30,000; F. W. Blees, John F. Schafer, Charles E. Roehl.

Electric Current Co., Brooklyn, N. Y.; $3,000; John W. Cleary, 186 Remsen St., Brooklyn.

Lake City Power Co., Lake City, Colo.; $50,000; David K. Lee, B. Gibson, Frank C. Gaudy.

Waterbury Battery Co., Waterbury, Conn.; $10,000; C. M. Platte, Lewis A. Platte, Chas. B. Schaemuchl.

Council Bluffs Gas & Electric Co., 60 Grand St., Jersey City, N. J.; $250,000, of which $1,000 is paid in; Hunter Wykes, Victor Cumberson, Wm. B. Hord.

Northern Development Co., Bangor, Me.; $1,000,000; to furnish Indian townships, Nos 1 and 2, Penobscot county, with water, electric lights and heat and of supplying electric power for factories and other industries; Henry M. Prentiss, Bangor; Chas. W. Mullen, Old Town, Me.

Darby-Lansdowne Electric Co., Darby, Pa.; $1,000, with $100 paid in; Treas., T. P. Street; Edwin B. Lewis, Lansdowne.

Clifton-Lansdowne Electric Co., Clifton Heights, Pa.; $1,000, with $100 paid in; Treas., T. P. Street, Lansdowne; N. Y. Mitchell, Philadelphia, Pa.

Yeadon-Lansdowne Electric Co., Yeadon, Pa.; $1,000, with $100 paid in; Treas., Edwin B. Lewis, Lansdowne.

Standard Electric Construction Co., Rochester, N. Y.; $5,000, with $500 paid in; Edgar H. Freeman, Walter H. Tobey, Burton A. Vandy, Rochester.

Wyoming Valley Electric Light, Heat & Power Co., Wilkes-Barre, Pa.; $500; Eugene W. Milligan, Wilkes-Barre; Will P. Billings, Kingston, Pa.; Edward C. Jones, New York.

BRIDGES.

BENNINGTON, VT.—The Vermont Construction Co., St. Albans, Vt., has been awarded a contract for constructing two or three iron bridges, 140 × 16 ft. at $9,706 each. There are also four smaller bridges that will have to be built. Col. J. H. Walbridge, First Selectman.

ALBANY, N. Y.—Reports state that plans are being prepared by the New York Central & Hudson River R. R. Co. for the construction of bridges at Livingston Ave. and at Spencer St.

HOOSICK, N. Y.—Dean & Westbrook have submitted the lowest bid to the town board, at $1,492, for constructing an iron bridge at North Hoosick, with a 110-ft. span.

McKEES ROCKS, PA.—The city clerk informs us that no steps have yet been taken toward the construction of a bridge at Turners Station and Pittsburg & Lake Erie R. R.

HAMILTON, O.—The county commissioners have resolved to construct an iron bridge across Seven-Mile Creek, on Oxford Road, near Somerville, to cost about $40,000.

GRAND HAVEN, MICH.—The county supervisors voted Oct. 21 on the question of constructing two bridges across the Grand River, to cost about $10,000 each.

MUSKEGON, MICH.—The question of constructing a new bridge over the Muskegon River on the North Muskegon Road is being considered by Mayor Balbirnie and the board of aldermen.

OSHKOSH, WIS.—It is reported that Adolph Green, Green Bay, Wis., has been awarded a contract by the Chicago & Northwestern Ry. for constructing the substructure of the new double-tracked steel drawbridge to be built across the Fox River.

ST. PAUL, MINN.—The county commissioners have notified the Minneapolis, St. Paul & Sault Ste. Marie Ry. Co. to construct a bridge at the Vaduals Park crossing of Rice St.

WICHITA, KAN.—W. Q. Church, Gen. Mgr., Wichita Ry., Light & Power Co., informs us that the construction of the bridge across the Big Arkansas River, will be included in the contract for rebuilding the street railway lines, plant, etc.

ST. JOSEPH, MO.—A contract for a plate girder viaduct over the railway track has been awarded to E. H. Connor, Fullerton Bldg., St. Louis, Mo. It consists of seven 51-ft. spans and two 34-ft. spans, 25 ft. wide.

OMAHA, NEB.—Andrew Rosewater, Cy. Engr., has completed plans for the new viaduct at South Sixth St. The structure will be about 1,573 ft. long, of stone and steel, and will cost between $150,000 and $200,000.

MISSOULA, MONT.—W. F. Hughes, informs us that it is proposed to construct a wooden and iron bridge, to cost about $7,500.

PALOUSE, WASH.—The county commissioners, Colfax, Wash., have rejected the bids for a 140-ft. span steel bridge across the Palouse River at this place; estimated cost $5,000. It is stated that the bridge will probably not be constructed until next year.

TACOMA, WASH.—The council has decided to reconstruct the Tacoma Ave. bridge, which was burned some time ago, according to reports.

COLFAX, WASH.—Bids are asked until Nov. 11 for furnishing plans and materials and constructing two bridges 60 ft. long each. John Tobin, County Audr.

LINCOLN, CAL.—Bids are asked until Nov. 1 for constructing a bridge in District No. 2. J. S. Mariner, Supervisor.

STOCKTON, CAL.—Geo. A. Atherton, County Surveyor, is preparing plans for a How truss wooden bridge across the Middle River, to be 199 ft. long. The plans will be submitted at the meeting of the board in November, according to reports.

LEWISTON, IDAHO.—The contract for a new cantilever bridge over Snake River at this place has been awarded to the Pittsburg Bridge Co., Pittsburg, Pa. It will be 1,500 ft. long, with a channel span of 374 ft., and 22-ft. roadway.

VICTORIA, B. C.—Reports state that bids will soon be asked by the council for a bridge between Bay St. and Rock Bay Ave.

BUILDINGS.

BARRE, VT.—Bids are asked by the city council until Oct. 31 for heating and plumbing the new city hall building. Burt H. Wells, Cy. Treas.; Geo. G. Adams, Arch., Lawrence, Mass.

FITCHBURG, MASS.—Sketch plans have been accepted, according to reports, for a brick, stone and iron hospital building for this city, to cost about $100,000. Rodney Wallace, Chn. Bldg. Com.; Kendall, Taylor & Stevens, Archs., 87 Milk St., Boston, Mass.

PITTSFIELD, MASS.—Harrington & Robinson, of Boston, are said to have been awarded the contract for erecting the steel work and roofing of the car-house and offices of the new street railway company.

BROOKLYN, N. Y.—Bids are asked until Oct. 31 for erecting additions and improvements to the state armory building for 47th Regiment, N. G. N. Y., in Brooklyn. Address Charles W. Tillinghast, Adj.-Gen., Albany, N. Y.—— The lowest formal bid received by the bureau of yards and docks, Washington, D. C., Oct. 15, for constructing a steel storehouse at the navy yard in this city was that of Cooper & Wigand, 1133 Broadway, New York, at $38,977. The appropriation made for the work was $30,000.——It is reported that plans have been approved by the state board of charities for the proposed $100,000 addition to the county hospital, at Flatbush.

BUFFALO, N. Y.—Plans have been filed for the new hospital building, 114 × 50 ft., to be erected on Jefferson St., near Genesee St., for the German Hospital Association, to cost $47,000.

CENTRAL ISLIP (L. I.), N. Y.—The state commission on lunacy, Oct. 20, awarded the contract for erecting and finishing the cottage colony buildings at Central Islip, which are to form a part of the Manhattan State Hospital, to Miles Leonard, of Binghamton, N. Y., at $697,707. The contract calls for semi-fireproof construction, involving fireproof corridors and a fireproof main cottage.

NEW YORK, N. Y.—Bids are asked by the department of education, at 585 Broadway, until Oct. 31, for improving the sanitary condition of public schools 4 and 18, Borough of Richmond; also for supplying heating and ventilating apparatus and electric lighting plant for public school 159, Borough of Manhattan.——Bids are asked by the fire department, 157 East 67th St., until Nov. 2, for constructing and erecting a building for the fire department on Scofield Ave., east of Main St., at City Island; two sureties, $4,000 each.——Bids are asked by the armory board, at the City Hall, until Nov. 4, for furnishing an alteration and improvement to the roof of the 22d Regiment armory building, at Columbus Ave. and 67th and 68th St.; two sureties, $2,000. Address Thos. L. Feitner, Secy., 280 Broadway.——Plans are being prepared, according to reports, for a 10-story fireproof business building to be erected on Broad and Beaver Sts. for Edward Kemp. Arch., Robt. W. Gibson, 18 Wall St.——Plans have been filed by Barnett Cohen, 58 Forsyth St., for a 6-story brick flat and store building at South and Jackson Sts., to cost $50,000. Arch., Samuel Sass, 23 Park Row; by Charles Naarden, for three 5-story brick flat and store buildings on 125th St., near Amsterdam Ave., to cost $72,000. Archs., Schneider & Herter, 48 Bible House; by Mark E. Stevens, for four 5-story brick flat buildings, on 89th St., near Columbus Ave., to cost $76,000. Arch., C. C. Manning, 58 East 86th St.; by Zimmerman & Valente, 1804 Madison Ave., for three 5-story brick flat buildings on 122d St., east of 8th Ave., to cost $240,000. Arch., Geo. F. Pelham, 503 5th Ave.; by Teichman & Potter, 181 Broadway, for a 6-story brick flat building on 91st St., near Central Park West, to cost $90,000. Arch., Geo. F. Pelham; by Henry Hanlein, 401 East 103d St., for five 5-story brick tenement buildings on 95th St., near 2d St., to cost $90,000. Arch., Franklin Baylies, 52 Bible House.——The bid received by the fire department Oct. 19 for a building on Main St., Borough of Bronx, was that of Ryan & McFerran, 106 East 23d St., at $7,828.

PERRY, N. Y.—David Andrus, of Perry, has been awarded the contract for erecting a new 2-story brick block on Main St., 65 ft. in length, for T. H. Bussey.

SYRACUSE, N. Y.—Ray B. Smith, 618 Kirk Block, Chn. of Com., informs us that the plans and bids for the proposed penitentiary building for Union county have been received, but that no further steps can be taken until the meeting of the board of supervisors in November.

ATLANTIC CITY, N. J.—It is reported that a 5-story hotel building will soon be erected on South Carolina Ave., near the beach, for Clarence M. Busch, to cost $50,000.

JERSEY CITY, N. J.—It is reported that plans have just been completed for the new railway station to be built in this city for the Pennsylvania R. R. Co. The main waiting room will be 80 × 97 ft., and the train shed will be extended by an addition 125 × 256 ft.

NEWARK, N. J.—Charles Marsh is reported to have received the contract for erecting the new building at 158 and 160 Market St. for the New York & New Jersey Telephone Co., 18 Bridge St., Brooklyn, N. Y., at $71,990. Arch., Jeremiah O'Rourke, 756 Broad St., Newark.

NEWARK, N. J.—A. B. & W. J. Westervelt, of New York, have been awarded the contract for erecting the bookstacks for the Free Public Library, made under the Stikeman patents, at $17,500.

LEWISTON, PA.—Bids are asked until Oct. 30, according to reports, for a brick and stone Methodist Church building, to cost $25,000. Archs., W. O. Weaver & Son, 1125 North 3d St., Harrisburg, Pa.

McKEESPORT, PA.—Plans are being considered for a new building for the Central High School, to cost about $80,000.——The erection of a new $60,000 city hall building is also contemplated.

PHILADELPHIA, PA.—William Stille & Son are reported to have been awarded the contract for rebuilding the Dobson Building, on Chestnut St., near 8th St.; work will begin as soon as plans have been approved.——A building permit has been granted to Charles McCaul, Contractor, for erecting a 15-story office building, 40 × 50 ft., at Broad St. and South Penn Square, for the West End Trust & Safe Deposit Co.; estimated cost, $300,000. Work is to be completed by May 1, 1899.——A building permit was granted Oct. 19 for the new 20th Ward school building to be erected on Friendship Ave., near Roup St., to cost $105,000.

SHIPPENSBURG, PA.—G. R. Dykeman, of Shippensburg, informs us that the contract for heating the building of the Cumberland Valley State Normal School; also for pipe work, radiators, power house and stack complete, has been awarded to Henry F. Murphy & Co., 27 North 7th St., Philadelphia, Pa.; and the contract for 600-ft. pipe tunnel to Frank Hafer, of Shippensburg. Engr., Robt. C. Clarkson, 641 Drexel Bldg., Philadelphia.

YORK, PA.—The following bids were received by the county commissioners, Oct. 20, for apparatus to heat the courthouse: Broomell, Schmidt & Co., York, Pa., $19,466; Evans, Almirall & Co., New York, $19,361, and McGinnes, Smith & Co., Pittsburg, Pa., $19,287.

BALTIMORE, MD.—The following bids were received by the police board, Oct. 19, for work on the new police station to be erected in the Northern Annex: Arch., Henry Brauns: William Ferguson & Bro., $60,618; J. J. Walsh & Son, $60,000; Edward D. Preston, $65,986; D. W. Thomas, $59,600; Morrow Bro., $64,975; John Stack & Son, $60,989; George Mann, $58,023; G. Sheehan & Sons, $58,285; J. Henry Miller, $59,917; Henry Smith & Sons, $77,140; John Gill & Son, $61,271, and B. F. Bennett, $66,552.

NORFOLK, VA.—Bids are asked by the supervising architect, Washington, D. C., until Nov. 22, for the construction (except heating apparatus, elevator and electric wire conduits) of the U. S. building in this city, as advertised in Engineering News. Archs., Wyatt & Nolting, 4 East Lexington St., Baltimore, Md.

HUNTINGTON, W. VA.—Gresham & Boyd, Charleston, W. Va., are reported to have been awarded the contract for erecting the first of 15 buildings for the State Asylum for Incurables; total estimated cost, $200,000. Arch., Harrison Albright, Charleston.

FORT CASWELL, N. C.—Bids are asked until Oct. 28 for constructing one temporary set of officers' quarters, one mess building and two barrack buildings, at this post. Harry G. Bishop, 2d Lt. and Q.-M.

COLUMBUS, GA.—The following bids were received by the supervising architect, Washington, D. C., Oct. 13, for the interior finish, plumbing, and approaches of the U. S. building at Columbus: Peter Schumahl, Savannah, Ga., $2,358, Jan. 1; John F. Dalton, Savannah, Ga., $1,988, 30 working days; J. S. Henley, Columbus, Ga., $2,068, 60 days.

SHEFFIELD, ALA.—Reports state that the contract has been let for erecting the new union station, to cost $12,000, for the use of the Nashville, Florence & Sheffield, the Northern Alabama and the Southern Rys.

FRANKFORT, KY.—S. C. Cryer, of Frankfort, has the contract for enlarging the hospital at the Frankfort prison, at $4,000.

LEXINGTON, KY.—The proposition to issue $100,000 in bonds for erecting a new court house to replace the one destroyed by fire will be voted upon in Fayette county on Nov. 8.

LOUISVILLE, KY.—W. N. Haldeman, Pres. of the Courier-Journal Co., has been granted a permit to make improvements to the Courier-Journal building at 4th and Green Sts., to cost $45,000.

SHELBYVILLE, KY.—The erection of a new $50,000 court house is said to be contemplated. Mayor Willis is interested.

WASHINGTON C.-H., O.—Plans have been accepted for the new $50,000 masonic temple to replace the one destroyed by fire.

MANSFIELD, O.—Bids are asked by the managers of the Ohio State Reformatory, until Nov. 16, for the erection of the east cell and lateral wing roof of the reformatory building. Secy., D. J. Gibson, Jr.; Archs., Weary & Dole, both of Mansfield.

DETROIT, MICH.—Bids are asked by the board of public works, a readvertisement, for the erection of a new G. A. R. memorial hall to cost not more than $38,000.

CHICAGO, ILL.—The Hennessy Bros. & Evans Co. has been awarded the mason work contract for W. D. Stein's 10-story building, at 303 and 305 Dearborn St. Arch., S. B. Eisendrath, 1439 Marquette Bldg.——Bids are being received, according to reports, for erecting a 3-story apartment building, 100 × 227 ft., on Graceland Ave., to cost about $90,000. Address Engstrand, Lothgren & Co., Builders, 6327 South Peoria St.; A. G. Lund, Arch., 602 West 63d St.

DANVILLE, ILL.—The following were the lowest bidders Oct. 12 for work at the National Home for D. V. S.: L. J. Mueller Furnace Co., Milwaukee, Wis., for heating apparatus, $2,156; the Prox & Brinkman Mfg. Co., Terre Haute, Ind., for plumbing and gas piping, $1,360; the Warren Electric Mfg. Co., Sandusky, O., for laundry machinery, shafting, at $6,943.

FREEPORT, ILL.—Bids are asked until Oct. 31 for erecting the superstructure, etc., of the proposed city hall building. The bids received in response to the former call were all too high, so plans have been altered. Address Geo. H. Tandy, Cy. Clk.; D. S. Schureman, Arch., 215 South Church St., Rockford, Ill.

DECORAH, IA.—The proposition of erecting a new $75,000 court house for Winneshiek county will be voted upon on Nov. 8.

ORANGE CITY, IA.—The erection of a new $35,000 court house will be voted upon at the next election.

ST. PAUL, MINN.—Bids are asked by the board of school inspectors, B. Zimmerman, Pres., until Oct. 31, for furnishing three smoke preventers at the Madison school.

FORT LOGAN, COLO.—H. W. Michael, of Denver, has been awarded the contract for a heating apparatus at Fort Logan, at $3,471.

SILETZ, ORE.—Bids are asked by the office of Indian affairs, Washington, D. C., until Nov. 17, for erecting at the Siletz Agency boarding school a frame hospital building. Comr., W. A. Jones.

SACRAMENTO, CAL.—It is reported that Samuel Ginsberg contemplates the organization of a stock company to erect a 5-story hotel and theatre building, to cost $200,000.

SAN JOSE, CAL.—T. and C. D. Mechell and W. Schuh are said to have been awarded the contract for the marble work on the new building to be erected here for Mrs. Jane L. Stanford, at $13,208.

UKIAH, CAL.—Contracts have been let for the constructing of the Mendocino State Hospital, at Ukiah, as follows: Rhody Ringrose, for masonry, $25,490; W. L. Prather, Jr., for iron and steel work, $4,269; Andrew Wilkie, carpentry work, $15,441; J. J. Grannis & Co., for heating and ventilating, $3,450; total cost, $55,034.

PHOENIX, ARIZ.—Bids are asked until Nov. 1 for erecting the territorial capitol building in this city, to cost about $100,000. Secy., F. H. Parker; Arch., J. M. Creighton.

WATER-WORKS.

OAKLAND, ME.—Wm. T. Harris, Waterville, Me., writes us that the proposed works will have a 1,000,000-gallon Worthington duplex pump; a 1,000,000-gallon reservoir, 30 hydrants, 6 miles of 6, 8 and 10-in. pipe; estimated cost, $50,000.

PLYMOUTH, N. H.—F. H. Rollins writes us that nothing has yet been done toward securing municipal works. A preliminary survey only has been made.

BUFFALO, N. Y.—The question of extending the water mains to Depew is being considered by the aldermen. The Depew end of the matter is being promoted by Henry W. Box, White Bldg., Buffalo.

CHARLOTTE, N. Y.—We are informed that the following bids were received Oct. 15 for building works, etc., as advertised in Engineering News; Engrs., Stanwix Engineering Co., Rome, N. Y.:

Birdseye & Lewis (accepted), Herkimer, N. Y.	$24,600
Jones & Luddington, Charlotte, N. Y.	25,544
Thos. Holohan, Rochester, N. Y.	25,900
Hill & Norton, Rome, N. Y.	26,375
Chambers & Casey, Rochester, N. Y.	26,572
Wm. Fuller, Rochester	29,075
S. M. Neff, Newark, N. J.	29,276
Jno. Dunfee & Co., Syracuse, N. Y.	32,300

COPENHAGEN, N. Y.—This place voted Oct. 18 to clean the springs, looking to the establishment of works.

FISHKILL-ON-THE-HUDSON, N. Y.—C. E. Spaight, trustee, writes us that something definite will soon be known in regard to the proposed new water supply. The city is in communication with several parties looking to a new supply, or for the reconstruction of the old works.

MIDDLETOWN, N. Y.—The question of a filtration plant at the water-works is again being considered by the water board.

SIDNEY, N. Y.—E. J. Patten, Supt., writes us that a committee has been appointed to investigate the question of putting in a new power pump to force the water from a new spring to the camp grounds.

WINDSOR, N. Y.—It is stated that this place has voted to spend $20,000 for works, the construction to be begun in the spring. Clk., M. A. Tompkins.

GLOUCESTER, N. J.—The council has awarded the contract for furnishing a 2,500,000-gallon pump to Robt. Wethill & Co., Chester, Pa., at $10,500.

IRVINGTON, N. J.—The residents of Manhattan Park have petitioned the council of this place to extend the water mains to that borough.

NEWARK, N. J.—The board of works has asked the council for $65,000 with which to construct a new feeder main in the annexed district.

KNOXVILLE, PA.—The following have been awarded contracts for furnishing the materials and for constructing works, as advertised in Engineering News: Pipe and

specials, R. D. Wood & Co., Philadelphia, Pa.; hydrants, valves, boxes, check valves, relief valves, etc., Rensselaer Mfg. Co., Troy, N. Y.; building reservoir, laying pipe, etc., Chas. Wilson, Philadelphia. Engr., Howard Murphy, Philadelphia; Clk.. H. A. Ashton.

NORRISTOWN, PA.—The council proposes to build municipal works, at a cost of about $250,000. Councilman Frank Smith may be addressed.

OIL CITY, PA.—Bids are asked, until Dec. 5 for furnishing one vertical cross compound crank and fly wheel pumping engine, of 3,300,000 gallons capacity, as stated in our advertising columns. Park C. Porter, Clk., Water Bd.

READING, PA.—A. B. Dundor, Pres. Bd. of Health, writes us that the question of securing a loan for constructing a water filtration plant will be voted on by the citizens Nov. 8.

LAUREL, MD.—D. G. Adelsberger, 722 Pennsylvania Ave., Baltimore, Md., has submitted a report for works, to cost about $33,000.

WHEELING, W. V.—The question of a water supply for the 8th ward is being considered. H. F. Jones, Pres. Water Bd.

ROCK HILL, S. C.—Bids are asked until Nov. 15 by the Rock Hill Water, Light & Power Co. for furnishing the materials and for constructing the proposed works, as stated in our advertising columns, Engr., J. L. Ludlow, Winston, N. C.; Pres., J. M. Cherry.

ATLANTA, GA.—Alderman Woodward has introduced an ordinance calling for another election to vote on the question of issuing $200,000 in bonds for extending the water mains.

WOODLAWN, ALA.—The question of building works for this place, a suburb of Birmingham, is being considered; estimated cost, about $20,000. J. S. Kennedy and John T. Hook, Woodlawn, may be addressed.

LAKE PROVIDENCE, LA.—This place will vote about Nov. 30 on the question of issuing bonds for works. R. L. Hill may be addressed.

SUMMIT, MISS.—It is stated that the date set for receiving bids for the construction of water-works was postponed until Oct. 25, owing to quarantine restrictions.

YAZOO CITY, MISS.—Information is wanted for works, a sewerage system and electric light plant for this place, according to reports. L. G. Montgomery may be addressed.

FAYETTEVILLE, TENN.—This place voted Oct. 15 to issue bonds for works.

ROCHESTER, KY.—It is reported that this place will build works, at a cost of about $2,000.

LANCASTER, O.—Bids are asked until Nov. 1 for furnishing and laying or setting cast-iron pipe, valves and hydrants. Secy. Water Bd., Louis J. Snyder.

YOUNGSTOWN, O.—Press reports state that the water-works trustees have presented a proposition to the effect that if the board of health will condemn the use of water from the Mahoning River it will arrange to secure a supply of water from Mill Creek, issue bonds to pay for the improvements, and pay principal and interest. The proposition will probably be accepted.

ANDERSON, IND.—Superintendent Lowell has submitted estimates for extending the mains to Shadeland, at a cost of $3,150.

BOYNE, MICH.—It is stated that this place will soon have works, the water supply to be secured from springs.

IRONWOOD, MICH.—We are informed that new works will be built by the Citizens' Water-Works Co. The works will be built in conjunction with the electric light company. There will be electric pumps with a capacity of 1,000,000 gallons. The company is also in the market for 36,000 ft. of pipe and a standpipe. Population, 10,000. E. D. Nelson may be addressed.

JONESVILLE, MICH.—W. M. Wetmore, Clk., writes us that on Oct. 10 this place voted to issue $18,000 in bonds and $10,000 for a light plant, to be operated in connection with the works. Up to Oct. 22 no engineer had been engaged.

BELLEVILLE, ILL.—The Deep Well Water-Works has been granted permission to lay five miles of pipe to connect the new works with the old.

UTE, IA.—J. P. Harker, Mayor, writes us that an election will be held Oct. 31 to vote on the question of issuing $3,000 in bonds for works; population, 450.

ST. PAUL, MINN.—Bids are asked until Nov. 7 for furnishing two 18-ft. × 54-in. tubular boilers, and also for setting the same at Como Park pumping station. Matt Jensen, Cy. Clk.

WEST DULUTH, MINN.—Alderman Krumrieg has introduced an ordinance authorizing an appropriation of $100,000 for the purchase of the works of the West Duluth Water Co., or for building a new plant.

CARTHAGE, MO.—E. B. Jacobs, Secy. Carthage Water Co., writes us that this company succeeds the original company, which was sold out under mortgage. The plant is complete and is being operated by a receiver until the new company is organized. No extensions or improvements will be made to the works. Mgr., H. C. Messenger.

LAMAR, MO.—Press reports state that M. T. Davis has been appointed receiver of the water and electric light company of this city. Indebtedness amounting to over $80,000 has been filed against the company. Jerry Guinney, Pres. and Mgr., has temporary charge.

WACO, TEX.—E. S. McKenney, Secy. Bell Water-Works, writes us that the company has not yet decided what will be done towards securing a new standpipe, but it is probable something will be done soon. Pres., J. D. Bell.

NEW WHATCOM, WASH.—Bids are asked until Nov. 7 for constructing 8,600 ft. of 24-in. wooden stave water main, at a cost of about $30,000. Cy. Clk., F. B. Graves.

THE DALLES, ORE.—The Pacific Bridge Co. has been awarded the contract for furnishing the materials and for building the works, at $9,433.

COLTON, CAL.—Press reports state that the recent bond issue amounting to $20,000 for works has been declared illegal.

LOS ANGELES, CAL.—The Clenega Water Co., has been incorporated, with a capital stock of $150,000. Incorporators: S. A. Stowell, B. T. Allen, Westwood H. Collins, George F. Platt and William Bowring.

SAN BERNARDINO, CAL.—Bids are asked until Nov. 7 for the purchase of a franchise for putting in works. Clk., J. B. Parazette.

STENT, CAL.—It is stated that arrangements are being made for the proposed works.

WHITTIER, CAL.—J. J. Jessup, Cy. Engr., writes us that the proposition before the city is to buy the works of the old company for $18,500, and also to build a new pumping station, the water supply to be secured from a new source, estimated to cost about $21,500. An election will soon be called to vote on the question of issuing $40,000 in bonds. Engr., Burr Bassell, Los Angeles, Cal.

TEMPE, ARIZ.—G. W. Hoadley, Phoenix, Ariz., has been granted a franchise for works.

GRAND MERE, QUE.—This place is to have works at once at a cost of about $40,000, according to reports.

LEVIS, QUE.—It is stated that the council has voted to build works at once.

PORT ARTHUR, ONT.—Edward S. Jennison, Arch., 134 Van Buren St., Chicago., Ill., has submitted a proposition to furnish this place with 500,000,000 gallons of water a year for a term of 99 years. This water supply will be in connection with the electric power plant.

HONOLULU, H. I.—Bids are asked by Jas. B. King, Minister of the Interior, Honolulu, or by the Hawaiian Consulate, 65 Wall St., New York, until Nov. 25, for furnishing cast-iron water pipe and connections.

SAN LUIS POTOSI, MEX.—Press reports state that an American company is negotiating with the authorities of San Luis Potosi regarding the construction of a water-works for this city. The water is to be taken from the Matehuala River. Population, 70,000.

JALAFA, VERA CRUZ, MEX.—It is stated that the work of constructing new works for this city has commenced. The estimated cost will be $800,000, of which amount $500,000 is borne by the state government. Population (1895), 10,000.

SEWERAGE.

NEW HAVEN, CONN.—Bids are asked until Oct. 31 for constructing sewers in certain streets. Cy. Engr., C. W. Kelley.

ALBANY, N. Y.—Bids are asked until Nov. 7 for constructing 15 to 6-in. pipe sewers in two streets; two sureties of $1,200 each and two of $500 each.

COHOES, N. Y.—Frank S. Ablett, of Cohoes, has been awarded the contract for building the first section of the system, at $29,734. The bids are given under Contract Prices.

FULTON, N. Y.—Bids will be wanted at once by the manager of the Fulton Worsted Mills Co., Oswego Falls, N. Y., for constructing a system for the buildings, according to reports.

GLENS FALLS, N. Y.—The sewer commissioners are considering the question of building a system.

NEW YORK, N. Y.—Bids are asked until Nov. 2 for constructing a temporary private sewer in 183h Ave., from 57th to 75th St. Comr. of Sewers, Jas. Kane, 267 Broadway.

ROCHESTER, N. Y.—It is proposed to build a 48 to 30-in. brick sewer this winter on East Ave.; estimated cost, $28,000.

SARATOGA SPRINGS, N. Y.—Bids are asked by the village trustees until Nov. 1 for the construction of an 8-in. sewer in State St., from Greenfield Ave. to Alger St. Jesse S. Mott, Village Engr., 420 Broadway, Saratoga Springs.

SYRACUSE, N. Y.—The following bids were received by the council Oct. 17 for constructing a 24 to 15-in. pipe sewer in West Fayette St.: G. W. Dakin, $6,542; James Swift, $6,528; C. T. Hookway, $6,147; F. S. Spasato, $7,035; Thomas Marnell, $6,972; Matthew Dillon, $6,224; P. J. Mack, $6,343; P. H. Lyons, $7,471; Martin & Sullivan, $7,426; Gleason & Kiely, $8,480; Richard Barrington, $6,989; T. F. Moore, $6,878; Martin Lavelle, $6,437; L. D. Hulbert, $6,721; J. W. Bustin, $6,916; E. C. Gay Co. (accepted), $5,573.

SOMERSET, PA.—At the election Nov. 8 this place will vote on the question of issuing $24,000 in bonds for a system.

WASHINGTON, PA.—The question of building sewers for East Washington is being considered by the council of that borough; estimated cost, $9,000. St. Comr., Wm. West.

WILLIAMSPORT, PA.—It is proposed to build sewers in certain streets. Councilmen Bennett and Cauldwell may be addressed.

MOBILE, ALA.—The following submitted bids to the council Oct. 17 for constructing sewers, as advertised in Engineering News: J. B. Neely & Co., Chattanooga, Tenn.; Van Sandt & Meed, Cincinnati, O.; M. T. Lewman & Co., Louisville, Ky.; Greenville Construction Co., Greenville, O.; Dowdle & Dungan, Chicago; Thos. J. Shea, Quincy, Ill.; St. John & Co., Mobile, Ala.; Guild & Co., Chattanooga; Blackmer & Post, St. Louis, Mo. (pipe only). The contract was let to T. J. Shea, Oct. 19, at $188,273.

YAZOO CITY, MISS.—The question of building a system, water-works, etc., is under consideration, according to reports.

DAYTON, O.—Local papers state that the following bids were received by the board of city affairs for building a 36-in. pipe or brick sewer in Main St.: James Reid & Co., $3,859 and $3,607, for brick and pipe sewer, respectively; E. Brentlinger, $4,365 and $4,101; J. J. Smith, $5,478 and $4,983. The contract was let to Reid & Co., at $3,607.

TOLEDO, O.—Bids are asked until Oct. 31 for building a 15-in. pipe sewer in Champlain St., and until Nov. 21 for building an 84 to 60-in. brick sewer in Paine St. L. P. Harris, Cy. Clk.

TOLEDO, O.—Bids are asked until Nov. 21 for the construction of a cylindrical brick sewer with a 13-in. and a 9-in. shell along the center line of Paine Ave., from the Maumee River to Woodford St., 84 ins. inside diameter, from the Maumee River to Genesee St., and 66 ins. inside diameter from Genesee St. to Woodford St. Lem. P. Harris, Cy. Clk.

EVANSVILLE, IND.—Michael Weber has been awarded the contract for building a main sewer in Washington Ave. from Garvin St. to Linwood Ave.

WABASH, IND.—Bids are asked until Nov. 7 for building sewers in two streets. Cy. Clk., Fremont McLees.

PEORIA, ILL.—Bids are asked until 2 p. m. Oct. 27 for building 700 ft. of brick tunnel sewer and about 2,000 ft. of pipe sewers for the Illinois Asylum for the Incurable Insane. F. W. Menke, 22 Arcade Bldg., Peoria.——The board of local improvement proposes to build a main sewer in Persimmon St.

DAVENPORT, ILL.—The question of building an intercepting sewer and certain other sewers at a cost of about $150,000 is being agitated by the Business Men's Association.

QUINCY, ILL.—Peter Simons submitted the lowest bids Oct. 10 for building sewers in four streets, at a total cost of about $7,000.

VALLEY JUNCTION, IA.—The council is reported as arranging to put in a system.

KENOSHA, WIS.—Reports state that Hanson & Co., of Racine, Wis., have been awarded the contract for building sewers on Naida St., in Kenosha.

ST. CLOUD, MINN.—Clarence L. Atwood, Pres. Council, writes us that the city engineer is preparing plans for a main sewer in the lower ravine to drain about 800 lots, and to extend from Lake George to Mississippi River. The main sewer will be built of granite or brick and tile pipe will be used for laterals. No time has yet been set for opening bids.

TOPEKA, KAN.—The council has decided to build a sewer in the First Ward, North Topeka.

SHERMAN, TEX.—Press reports state that work on the proposed system will begin within a few months; estimated cost, $100,000. The system will be built by Geo. W. Pugh & Co., 2851 Hutchinson St., Philadelphia, Pa.; Mayor, A. A. Fielder.

SAN BERNARDINO, CAL.—Bids are asked until Oct. 26 for caring for and disposing of the sewage of this city for one year. Clk. Bd. Trustees, A. W. Clark.

TORONTO, ONT.—C. H. Rust, Cy. Engr., has submitted a report for the sewage disposal of the city. Two systems are suggested, each to cost about $1,500,000.

GARBAGE DISPOSAL—STREET CLEANING

NEW ROCHELLE, N. Y.—G. H. Crawford, Pres. Bd. of Health, writes us that it is probable that a plant will be built here not later than spring. Frederick Lorenzen, Chn. Com.

JERSEY CITY, N. J.—The Thackeray Incinerating Co., of New Jersey, has been incorporated with a capital stock of $100,000. Charles B. Thurston, Jersey City; F. W. Montgomery, New York, and Lewis Perrine, Trenton, N. J.

ORANGE, N. J.—Mayor Stetson is urging the council to consider better methods of disposing of the city garbage than by dumping it into vacant lots.

NORRISTOWN, PA.—C. R. Weaver, Health Officer, writes us that no appropriation has yet been made for a garbage crematory. The question of garbage disposal has been discussed for years by the board of health. The borough council is just beginning to take some interest in the matter.

ATLANTA, GA.—The board of health is in favor of building two garbage crematories in the central portion of the city. The committee is composed of Lewis H. Jones, Chn.; Dr. C. F. Benson and John A. Miller.

FORT THOMAS, KY.—Bids are asked until Nov. 2 for the construction of a garbage crematory at Fort Thomas, Ky. Address Capt. Chas. D. Palmer, Acting Ch. Q. M., 415 Pullman Bldg., Chicago, Ill.

LOUISVILLE, KY.—Health Officer Allen has written to about 15 cities for information as to their methods of disposing of the city garbage, and also for detailed information of the crematories in use. A plant for this city is estimated to cost about $40,000.

EAST LIVERPOOL, O.—The question of a better method of garbage disposal is considered.

TOPEKA, KAN.—Bids will probably be asked at once by the city clerk for the removal of dead animals.

SAN FRANCISCO, CAL.—The supervisors have delayed the awarding of the garbage contract, noted last week, until Nov. 11.——Efforts are to be made to show that the 50-year franchise recently granted to Sanitary Reduction Works is illegal.

SAN JOSE, CAL.—A company has applied for a franchise for a plant.

STOCKTON, CAL.—J. W. Northrup, of San Francisco, is reported to have applied for a franchise.

HAMILTON, ONT.—W. E. Gowe, Montreal, Que., has been awarded the contract to build an incinerator at the sewage disposal works, at $3,700, according to reports.

STREETS AND ROADS

ATHOL, MASS.—It has been voted to appropriate $2,500 for the purchase of a stone crushing plant.

SUDBURY, MASS.—A contract has been awarded to White & Gaffney, Medford, Mass., at $5,325, for a section of State highway.

PAWTUCKET, R. I.—Samuel H. Roberts, Cy. Clk., informs us that a resolution has been introduced appropriating $9,000 for paving. Nothing has been done toward preparing plans, etc.

NEW LONDON, CONN.—Bids are asked until Nov. 5 for improving Ocean Ave. Geo. K. Crandall, Cy. Surveyor; Peleg Williams, Chn. Com.

ALBANY, N. Y.—A contract was awarded Oct. 20 to E. A. Matthews, Binghamton, N. Y., at $7,200. C. W. Adams, State Engr., Albany.

BUFFALO, N. Y.—A petition has been presented to the council to pave Court St. with asphalt, between Main St. and Delaware Ave.

GOSHEN, N. Y.—A proposition to appropriate $1,000 for a stone crusher will be submitted to a vote at the coming election, according to reports.

NIAGARA FALLS, N. Y.—Bids are asked until Oct. 28 for paving on Second St. and Cherry Ave., with asphalt, about 8,180 sq. yds., as stated in our advertising columns. Walter Jones, Cy. Engr.; S. F. Arkush, Clk.

ROCHESTER, N. Y.—The following bids have been received for paving: North Clinton St.—Warren-Scharf Asphalt Paving Co. (accepted), $60,638; Rock Asphalt Pavement Co., $62,309; Rochester Vulcanite Pavement Co., $62,483. Glenwood Park—Rock Asphalt Pavement Co., $10,137; Rochester Vulcanite Pavement Co., $10,503; Warren-Scharf Asphalt Paving Co., $10,539. The Highlands—Rochester Vulcanite Pavement Co., $6,040; Rock Asphalt Pavement Co., $6,281; Warren-Scharf Asphalt Paving Co., $6,213.

TROY, N. Y.—Bids are asked until 11 a. m., Oct. 28, for brick paving on Church St., from Ferry to Division St. E. Ogden Ross, Secy. Contracting Bd.

PLAINFIELD, N. J.—Andrew J. Gavett, Engr. and Comr., 152 Park Ave., writes us that it is proposed to pave 13,180 sq. yds. with asphalt or brick; estimated cost, $31,000.

READING, PA.—The park board is preparing to construct a section of the new addition to the Mt. Penn Boulevard, for which plans have been completed. The addition will add over a mile to the drive, although only about 1,300 ft. of this is to be built this fall.

SCRANTON, PA.—Bids are asked by the council until Nov. 3 for repairing asphalt pavements, according to reports.

WILKESBARRE, PA.—Bids are asked until Oct. 29 for excavating, furnishing material and laying about 2,000 lin. ft. of 8-ft. flagstone sidewalks on Carlisle St. Fred. H. Gates, Cy. Clk.

TAMPA, FLA.—Harry Levick has been awarded a contract to construct a new road six miles long, from this city to the Hillsboro River, according to report.

LOUISVILLE, KY.—The board of public works has rejected the bids received for asphalt paving on Chestnut St., to cost about $75,000, on account of being too high.

MEMPHIS, TENN.—Bids are asked until Oct. 29 for hauling, spreading, breaking and rolling gravel on certain streets. D. P. Prescott, Secy. County Comrs.

CINCINNATI, O.—Bids are asked until Nov. 12 for drain pipe, masonry, fill, broken stone, gravel and lumber on the Shepherd Creek Road. E. L. Lewis, County Audr.

CLEVELAND, O.—The following bids were received by the park board for constructing a drive through Wade Park: Northern Ohio Paving & Construction Co. (accepted) $28,259; Blaman & Baisch, $29,498; M. I. De Celle, $29,626; Spence Bros., $30,749; John E. O'Brien, $32,121; Condon & Blasberg, $32,334; William Wachs, $34,957.

DAYTON, O.—Bids are asked until Oct. 31 for 5,000 sq. yds. of Buckeye block paving, 3,250 lin. ft. of curb, etc., on Sycamore St. from Perry St. to the boulevard; until Nov. 4 for 2,631 sq. yds. of Buckeye block paving and 2,380 lin. ft. of curbing on Charter and Council Sts. J. L. Baker, Pres. Bd. Cy. Affairs.

FINDLAY, O.—Bids are asked until Oct. 31 (postponement from Oct. 27) for macadamizing, etc., on East Hardin St. A. W. Ray, Clk. Bd. Improvements.

TOLEDO, O.—Bids are asked until Oct. 31 for Buckeye block paving on Potter St. and one alley. L. P. Harris, Cy. Clk.

QUINCY, ILL.—F. A. Grover, County Surveyor, informs us that the committee has accepted the plans for the proposed Missouri Road, to cost $12,000, and that bids will soon be asked.

OTTUMWA, IA.—Bids are asked until Oct. 31 for brick paving, etc., on South Green St. Thos. F. Keefe, Chn. Com.

LOS ANGELES, CAL.—J. H. Dockweiler, Cy. Engr., has prepared plans for the proposed improvements on Boyle Ave., from 5th St. to Stephenson St., estimated cost about $6,500, according to reports.

NAPA, CAL.—Bids are asked until Nov. 17 for constructing a road in Sage Canyon. N. W. Collins, County Clk.

SANTA BARBARA, CAL.—Bids are asked until Nov. 14 for grading section No. 3 of the Refugio Road. H. H. Doyle, Clk. Supervisors.

MANUFACTURING PLANTS.

MILTON, VT.—McCaghey & Lineham, general contractors, of Milton, have been awarded the contract to build a large pulp mill on the Lamoille River, at Milton, for the International Paper Co., of New York, and will commence the work at once.

ANSONIA, CONN.—It is reported that the Harris Rubber Co. has just been formed and that it will erect a large factory building in Beacon Falls, a suburb of this city, in order to commence business by March 1. The contract for the entire equipment of machinery has been given to the Farrell Foundry & Machine Co., of Ansonia. The principal stockholders are J. H. Wettimore, Harris Wettimore and A. D. Warner, all of Naugatuck, Conn.

COHOES, N. Y.—The old Weed & Becker axe factory on the Champlain Canal was destroyed by fire Oct. 17, causing a loss on the building of $10,000 and a total loss of about $50,000.

DEXTER, N. Y.—Reports state that the Sulphite Co. is about to erect a new boiler house, 60 × 80 ft., to contain six large boilers. Contractors, Foster & Reed; Arch., Charles Eaton, Carthage, N. Y.

TROY, N. Y.—Plans have been prepared for a new steel storage building, 70 × 70 ft., to be erected on 7th Ave. for Conway Bro. & Kane, near their present brewing plant; estimated cost, $25,000. Archs., M. F. Cummings & Son, Troy.

WATERVLIET, N. Y.—The Troy Malleable Iron Works Co. expects to erect an annex to its plant in this city, to cost about $15,000. Arch., M. F. Cummings & Son, Troy.

HOBOKEN, N. J.—Press reports state that an artesian well 300 ft. deep has been discovered on property on the Palisades, in West New York, owned by Wm. H. Schmidt, and that an ice plant will be erected thereon at a cost of about $100,000.

AVONMORE, PA.—Bids have been asked, according to reports, for the erection of two of the six mills which the newly incorporated Alcania Tin & Terne Co. expects to build here. Engr., S. Diescher, of Pittsburg. Among the directors are W. H. Hilliard and M. M. Garland, Collector of Internal Revenue of Pittsburg, Pa.

BRADFORD, PA.—The Aschman Steel Casting Co., of Sharon, Pa., is said to be negotiating for the erection of a new steel foundry near this place.

PITTSBURG, PA.—A fire in this city, Oct. 19, destroyed the machine shop and the copper and brass rolling mills of C. G. Hussey & Co. at 2d Ave. and Murphy St., causing an estimated loss on machinery, etc., of about $25,000.—— Reports state that the Riter-Conley Mfg. Co. will soon erect a blacksmith and paint shop building, 250 × 75 ft., for the Schoen Pressed Steel Co.

PRICEBURG, PA.—A new silk mill is being erected in this borough on the old Crippen estate, to cost about $25,000. There will be one main building 100 × 150 ft., an engine room 30 × 60 ft., and a boiler house 30 × 60 ft.

SEIGFRIEDS BRIDGE, PA.—James Stewart & Co., Engineers and Contractors, Prudential Bldg., Buffalo, N. Y., have secured the contract for erecting six brick and steel fireproof buildings for the Lawrence Cement Co. at Siegfried. They consist of a kiln building 120 × 126 ft., mill building 63 × 285 ft., engine bbuilding, 75 × 105 ft., boiler house 42 × 105 ft., stock house 120 × 462 ft., and fuel building 50 × 60 ft.; estimated cost when completed about $225,000. There were 20 bidders.

SHARON, PA.—The contract for erecting an addition 215 × 70 ft. to the P. L. Kimberly rolling mill, at Sharon, has been awarded to the Shiffler Bridge Co., of Pittsburg. Work will be started at once.

WILMINGTON, DEL.—Megary & Son will soon erect a 6-story brick building, 154 × 100 ft., at Orange and 6th Sts., to be occupied as a warehouse and furniture factory.

SALISBURY, MD.—It is reported that J. H. Tomlinson has purchased a tract in Salisbury and will move his crate and basket factory here and enlarge his plant, now situated at Hebron.

HAMILTON, GA.—Beers Bros., of this city, contemplate the erection of a large machine shop opposite the Columbus & Rome Ry. station.

ROCKMART, GA.—Col. J. D. Waddell is reported to have just completed arrangements with New England parties for the erection of a cotton factory here to employ about 200 hands.

BIRMINGHAM, ALA.—A fire in the plant of the Hood Machine Co. Oct. 17, at 1st Ave. and 15th St., caused damage to property valued at about $15,000. It is said that the plant will be rebuilt at once.

LOUISVILLE, KY.—Hoffman, Ahlers & Co., of Louisville, are said to have been awarded the contract for erecting the building and copper work for the new distillery to be run in connection with the works of the White Mills Distilling Co. at 18th and Howard Sts. The owners will be Hoffheimer Bros., of Cincinnati, O., and the cost about $50,000.

ELYRIA, O.—A fire at this place, Oct. 18, damaged the linseed oil works, owned by the C. H. Price Co., of Cleveland, O., causing a reported loss of $40,000.

INDIANAPOLIS, IND.—A part of the plant of the T. B. Laycock Mfg. Co., on 10th St., was damaged by an explosion Oct. 12, which originated in the foundry; estimated loss $20,000 to $25,000.

CHICAGO, ILL.—Pendergast & Clarkson, 161 La Salle St., are said to have the mason contract for the proposed brewery to be erected at Elston Ave. and Snow St. for Virgil M. Brand, 1251 Elston Ave. and Snow St. for $150,000. Arch., Louis Lehle, Schiller Bldg.

MILWAUKEE, WIS.—Plans have been completed, according to reports, for a cooperage plant, 164 × 141 ft., to be built at 9th and Winnebago Sts., for the Pabst Brewing Co.; estimated cost $70,000.

LEHI CITY, UTAH.—The directors of the Utah Sugar Co. Oct. 17 decided to make additions to the present plant next year so as to permit of a capacity of from 50,000 to 60,000 tons of beets a season.

GAS PLANTS.

GOWANDA, N. Y.—Gaenssler, Fisher & Co. are making arrangements to construct a pipe line to furnish the town with natural gas.

SYRACUSE, N. Y.—The Syracuse Gas Co. is preparing to put in a system of flues for the purpose of condensing odors. The west side of the plant will be remodeled.

PITTSBURG, PA.—Reports state that the Bellevue & Glenfield Natural Gas Co., which supplied Bellevue, Glenfield, Emsworth, Ben Avon, Avalon and Coraopolis, has been purchased by the Manufacturers' Natural Gas Co. for $250,000. It is reported that the mains will be extended to Allegheny.

BRIDGEWATER, VA.—Reports state that the Bridgewater Acetylene Gas Co. is being organized to manufacture an improved acetylene gas generator.

CHARLOTTE, N. C.—We are informed that the purchase of the Charlotte Gas Light Co. was made by the United Gas Improvement Co., Philadelphia, Pa., instead of the Consolidated Gas Co., Philadelphia, as stated in our last issue; also that the price paid was considerably in excess of $50,000.

RALEIGH, N. C.—It is reported that Baltimore capitalists have purchased a controlling interest in the Raleigh Gas Light Co. and will increase the capacity of the plant about 100%. An electric dynamo may also be put in. B. P. Williamson, Pres.; W. T. McGee, Secy.

FOSTORIA, O.—Howard Swartz, Secy., informs us that the City Heat & Light Co. is arranging for the construction of a gas plant with a capacity of 1,000,000 cu. ft. per day. A building 200 × 40 ft. will be erected. Samuel R. Bullock, Des. Engr., Philadelphia, Pa.

JOHANNESBURG, SOUTH AFRICAN REPUBLIC.—Bids are asked by the council until Jan. 6 for a complete carburetted water-gas plant, according to reports. Address Robert Whyte & Co., 22 Bury St., St. Mary-Axe, E. C.

NEW COMPANIES.—Council Bluffs, Ia.; $25,000; to establish acetylene gas plants. W. H. Harris, R. J. Hart and T. A. Harris.

Winnisimmet Gas Co., Revere, Mass.; $50,000; to furnish gas to Revere, Winthrop and vicinity. Scott F. Bickford, Pres.

New York Gas & Coke Co., New York, N. Y.; $500,000; P. H. Childs, J. A. Hawes and F. E. Mygott.

MISCELLANEOUS CONTRACTS.

FIRE ALARM SYSTEM.—Perth, Ont.—Reports state that bids will probably be asked soon for a fire alarm system.

TELEPHONE SYSTEM.—Mamaroneck, N. Y.—The board of trustees has granted a franchise to the Phoenix Telephone Co.

WATER TOWER.—Atlantic City, N. J.—The council has decided to purchase a water tower for the fire department, to cost about $1,000.

FIRE APPARATUS.—St. Marys, N. B.—It is reported that the question of purchasing more fire apparatus is being considered by the council.

TELEPHONE WORK.—Flint, Mich.—The Saginaw Valley Telephone Co. will issue $70,000 in bonds for the improvement and extension of the plant.

TELEPHONE SYSTEM.—Lyons, N. Y.—S. E. Bishop and Alvin B. Bishop, Clyde, N. Y., have been awarded a franchise to construct a telephone exchange.

TUNNEL REPAIRS.—Troy, N. Y.—Holbrook, Cabot & Daly, Boston, Mass., have been awarded a contract to repair the 6th Ave. tunnel between Ferry and Congress Sts.

TOOLS, ETC.—Norfolk, Va.—Bids are asked until Oct. 29 for furnishing condenser tubes, lathes and one boring and drilling machine, for the navy yard. Edwin Stewart, Paymaster-General, Washington, D. C.

CRANE.—Port Royal, S. C.—Bids are asked unt.l Nov. 26 for furnishing a jib crane of 40 tons capacity for the navy yard; estimated cost, $45,000. M. T. Endicott, Ch. Bureau Yards and Docks, Washington, D. C.

HARBOR WORK.—Wilmington, Del.—A contract has been awarded to the New York Dredging Co. for removing the dirt and mud, and to John J. Fitzpatrick, Plattsburg, N. Y., for removing rock, for the improvement of Wilmington Harbor, to cost about $200,000.

REMOVING WRECK.—Portchester Harbor, N. Y.—Bids are asked until Nov. 28 for removing a wreck and cargo in Long Island Sound, off Portchester Harbor, as stated in our advertising columns. Major H. M. Adams, U. S. Engr., Army Bldg., New York.

NAVAL SUPPLIES.—St. Augustine, Fla.—Bids are asked until Nov. 21 for furnishing cement, stone, steel beams, anchor bolts, ammunition trolley systems, hoists and cranes, as stated in our advertising columns. Lieut.-Col. W. H. Benyaurd, U. S. Engr., St. Augustine.

CANAL.—Saratoga County, N. Y.—N. O. Belyea, Civil Engr., 547 State St., Hudson, N. Y., informs us that T. D. Welch & Co., Nassau, N. Y., were awarded a contract Oct. 24 to construct a canal 2,000 ft. long in Saratoga county, requiring about 10,000 cu. yds. of rock, and 22,000 cu. yds. of earth to be excavated.

PIERS, ETC., BURNED.—Brooklyn, N. Y.—A fire Oct 24 destroyed a number of piers and warehouses on the waterfront between Vandyke and Walcott Sts., estimated loss, about $650,000. Among the losers are Geo. L. Hammond, the Brooklyn Wharf & Warehouse Co. and E. F. & W. Roberts, Liverpool, England.

ARCH WORK.—Hamilton, O.—The following bids have been received by the board of control for arching the hydraulic from 4th to Front Sts.: Jos T. Guillaume, No. 1, brick, $15,191; No. 2, paving brick, $15,745. S. E. Irwin, brick, $16,560. W. H. Louthan, $16,731; Louis Drach, $16,660, with own specifications, $15,391.

NAVAL STATION.—Goat Island, Cal.—Reports state that bids will soon be asked by the navy department, Washington, for constructing a barracks and dock for the proposed naval training station, at this place, to cost about $100,000.

CONTRACT PRICES.

SEWERS.—Marietta, O.—The following bids were received by the council Oct. 15, 1898, for constructing sewers in the 5th District:

Items.	F. A. Irvine, Greenville, O.	C. & Z. T. Darrow.	Ulrich, Nissley & Williams, Springfield, O.	Adams Bros., Zanesville, O.	John Wilking.
15-in. pipe.....	$1.40	$1.13	$1.25	$1.25	$0.68
8-in. "	.65	.22	.80	.66	.31
6-in. "	.18	.20	.35	.315	.29
4-in. "	.10	.12	.80	.29	.22
Manholes, each.	30.00	25.00	35.00	28.00	30.00
Lampholes, each	4.00	5.00	10.00	5.00	5.00
Flushtanks each	27.00	25.00	40.00	30.00	30.00
Total	$4,962	$2,987	$5,963	$5,214	$3,107

BRIDGES.—Chicago, Ill.—The following bids were received by the board of trustees of the Chicago Drainage Canal Oct. 5, 1898, for building certain bridges; Wire Mills road bridge:

Substructure.

Quantities.	Hayes Bros., Janesville, Wis.	McArthur Bros. Co. and Winston & Co., Chicago.	Griffiths & McDermott, Chicago.	Fred'k W. Brown, Chicago.
Excavation .....170 cu. yds.	$0.50	$0.40	$1.00	$1.50
Lumber (trestle) .112 M. ft...	18.00	18.00	22.00	16.50
Masonry removed 132 cu. yds.	.40	2.00	1.00	2.50
Cement concrete..465 " "	7.50	8.00	6.95	7.95
Raising old span.....176.00	200.00	275.00	500.00	
Total $5,816	$6,268	$6,273	$6,630	

Superstructure.

Bidder.	Complete.	Extra, Medium or soft st'l a lb., cts.	Extra, Lumber a 1,000 ft. B.M.
Wis. Bridge & Iron Co., Milwaukee	$8,945	2.8	$30.00
Pittsburg (Pa.) Bridge Co.	9,130	2.9	25.00
Toledo (O.) Bridge Co.	9,469	3.0	25.00
Penn Bridge Co., Beaver Falls, Pa.	9,617	2.95	23.00
J. G. Wagner Co., Milwaukee, Wis.	9,298	3.0	26.00
Joliet (Ill.) Bridge & Iron Co.....	9,701	3.2	25.00
Massillon (O.) Bridge Co.	9,600	3.0	25.00
King Bridge Co., Cleveland, O....	9,700	3.0	30.00

Lockport Highway Bridge—The itemized bids were the same as those submitted for the Wire Mills Bridge. The total bids for the Lockport bridge were as follows: Wisconsin Bridge & Iron Co., $10,954; Pittsburg Bridge Co., $11,235; Toledo Bridge Co., $11,880; Penn Bridge Co., $11,995; Wagner Co., $11,967; Massillon Bridge Co., $12,400; King Bridge Co., $12,500. Substructure—236 cu. yds. of excavation, and 460 cu. yds. Portland cement concrete: Griffiths & McDermott, $3,523; Hayes Bros., $3,613; McArthur Bros. Co. and Winston Co., $3,810; Frederick S. Brown, $3,820.

GRADING.—Brooklyn, N. Y.—The following bids were recently received by the bureau of yards and docks, U. S. N., Washington, for grading in the New York navy yard: Michael J. Curley, Jersey City, N. J., 45 cts. a cu. yd., $135,400; Ambrose F. Dudley, 100 Broadway, New York, 49 4-10 cts.; Eugene Lentilhon, 11 Broadway, New York city, 79½ cts.; Maurice Fitzgerald, 219 Havemeyer, Brooklyn, N. Y., 30 cts.; Frank J. Gallager, 534 Park Place, New York, 44 cts.; The F. W. McNeal Co., 80 Reade St., New York, 55 cts.; Nicholas Ryan, 491 Smith St., New York, 49 cts.; Washington Buckly, 94 Emerson St., Brooklyn, N. Y., 48 cts.; R. H. Hood Co., New York, 42 4-10 cts.; Charles Hart, 531 3d St., Brooklyn, N. Y., 48 cts.; Geo. H. Aspinwall, 136 Liberty St., New York, 49⅝ cts.; Johnson & Reynolds, Girard Bldg., Philadelphia, 59¾ cts.; Wm. Beard, 13 William St., New York, 45 cts.

MACADAM PAVING.—Janesville, Wis.—A. E. Badger, Cy. Clk., writes us that the contract for macadamizing a portion of South Hogler St. and of Dodge St. has been let to J. H. Watson at 29¼ cts. a sq. yd. Chn. Com., J. B. McLean.

LEVEE WORK.—Columbus, O.—John Keeler and Foley Bros. submitted bids Oct. 11, 1898, at 28 cts. and 29 cts. a cu. yd., respectively, for 28,000 cu. yds. of levee work between Mound St. and Green Lawn Ave.

HAULING WATER PIPE, ETC.—West Springfield, Mass.—The water commissioners received the following bids Oct. 17, 1898, for hauling and laying the pipe for a water main on the Holyoke Road, from the First Church to the Holyoke line. The contract calls for 17,300 ft. of 10-in. pipe: F. T. Ley & Co., Springfield, Mass., (accepted), 12⅝ cts. a foot; R. D. Maynard, 16¼ cts.; A. H. Wright & Son, 17 cts.; M. L. Tourtellotte, West Springfield, 17 cts.; Sackett Bros., 13 cts.; J. K. Barber, 16 cts.; O'Connell & Son, Chicopee, 14¾ cts.; Monson Granite Co., Monson, 16.95 cts.; Atkins & Co., Palmer, 14 cts.; Lane & Co., Syracuse, 18 cts. The contract for hauling pipe was awarded to M. J. Shinkwin, of Springfield, at 45 cts. a long ton. There were 10 bids ranging from 45 cts to 80 cts.

LEVEE WORK.—Memphis, Tenn.—We are informed that Bodkin Bros., Little Rock, Ark., have been awarded the contract at 15 cts. a cu. yd. for 2,193,000 cu. yds. of levee embankment from mile $\frac{127}{28+00}$ to mile $\frac{151}{28+00}$; total, $330,000. Geo. Arnold, Memphis, submitted a bid at 16 cts. a cu. yd. for field work and at 18 cts. for woods work, beginning at Frenchtown and working south to the amount of $50,000. There will be eight miles in Lee county from Kent's north to Frenchtown. This bid covers about five of the eight miles. It has been held for further consideration. Ch. Engr., Harry N. Parr, 49 Southern Express Bldg., Memphis.

STREET CLEANING.—Buffalo, N. Y.—Henry B. Bayard, Contractor, Prudential Bldg., writes us that he has been awarded the contract for street cleaning of the whole city for five years from Aug. 1, 1898, to Aug. 1, 1903, as follows: Brick, 23½ cts. a great square; asphalt, 23½ cts.; stone, 33½ cts. The work will be done with rotary brooms and Furnas' suction sweepers. Supt. of Sts., Jno. H. Schifferens.

WOODEN WATER PIPE.—Pueblo, Colo.—The contract for furnishing 34-in. wooden water pipe has been let to Holmes & Allen, of Denver, Colo., at $1.20 a ft.

SEWERS.—Cohoes, N. Y.—The following bids were received Oct. 12 for constructing sewers in section No. 1 of the sewerage system, as advertised in Engineering News; Harrison & Sons' figures for the sewers are the total bids for the various streets; Engr., Edward Hayes:

Bids Received at Cohoes, N. Y., Oct. 12, 1898, for Constructing Sewers in Section No. 1.

Streets and Items.	Size of sewer.	Quantities.	R. H. Thos. F. Moore, Syracuse, N. Y.	Edw. H. Strong, Albany, N. Y.	Frank Post, Barre, Pa.	Pidgeon, Sons, & Gerties, N. Y.	E. R. Pattison, Bldg., N. Y.	P. H. Harrison & Co., Hartford, Conn.	F. S. Ablett, Cohoes, N. Y.
Saratoga St.: Stock y'd to Mohawk..	30-in.	765 lin. ft.	$1.94	$1.95	$3.38	$4.00	$1,607	$2.76	$2.18
Mohawk to Oneida	20-in.	2,300 " "	2.38	1.45	2.91	5.30	6,555	3.15	2.18
Mohawk St.: Saratoga to Columbia..	24-in.	390 " "	1.78	1.65	3.00	6.50	565	1.98	1.51
Oneida to St. John's	12-in.	150 " "	2.91	1.13	2.30	6.50	375	3.98	2.61
St. John's to Seneca	10-in.	150 " "	1.76	3.00	1.76	6.50	322	2.80	1.26
Remsen to Oneida	15-in.	670 " "	2.94	1.20	3.00	7.00	1,675	3.24	2.29
Canvass St.: Ontario to Pine	12-in.	270 " "	1.71	1.13	1.72	4.25	400	2.47	1.14
Ontario to Oneida	12-in.	380 " "	1.66	1.13	.82	4.25	380	1.43	.95
Remsen St.: Mohawk to Courtlandt..	10-in.	285 " "	2.73	1.10	3.16	9.00	712	2.92	1.63
Factory to Courtlandt	10-in.	125 " "	1.59	1.10	1.58	4.00	230	2.28	1.40
Factory to Oneida	10-in.	150 " "	2.12	1.10	1.56	4.00	225	2.16	1.18
Oneida to St. John's	12-in.	140 " "	1.87	1.13	1.30	4.00	200	2.20	1.10
St. John's to Ontario	10-in.	240 " "	1.75	1.10	1.21	4.00	325	1.97	1.09
Ontario to Newcomb	12-in.	220 " "	1.73	1.13	1.30	4.00	400	2.00	1.17
Main St.: Trojan Alley to Columbia	12-in.	910 " "	2.53	1.13	1.86	4.50	1,450	2.40	1.34
Bemis Alley: Oriskany to Ontario...	12-in.	420 " "	.60	1.13	.67	3.00	315	.92	.57
Van Vechten to Factory	10-in.	360 " "	.50	1.10	.68	3.00	200	.88	.43
Sargent St.: Van Vechten to White.	10-in.	885 " "	1.18	1.10	1.37	3.50	1,000	1.68	.85
Columbia St.: Mohawk to Erie Canal	24-in.	1,320 " "	2.34	1.65	3.69	6.00	1,100	2.70	1.96
White St.: Oriskany to Sargent	10-in.	125 " "	1.40	1.10	.91	3.50	100	1.30	.85
Main to Remsen	12-in.	250 " "	1.33	1.13	1.75	3.50	240	1.27	.95
Newcomb St.: Remsen to West	8-in.	230 " "	.86	1.07	1.24	3.00	300	2.00	.95
Ontario St.: Remsen to Canvass	12-in.	540 " "	1.83	1.13	2.20	6.00	1,100	2.96	1.66
Seneca St.: Mohawk to Remsen	10-in.	200 " "	1.20	1.10	1.38	3.50	380	2.34	1.10
St. John's St.: Mohawk to Remsen..	10-in.	240 " "	1.53	1.10	1.03	3.50	275	1.68	.76
Oneida St.: Mohawk to Remsen.....	12-in.	340 " "	2.44	1.13	1.65	5.00	360	1.43	1.03
Mohawk to Saratoga	18-in.	820 " "	3.33	1.27	3.12	5.00	1,530	3.74	2.28
Factory St. Al.: Remsen to Erie...	8-in.	308 " "	1.81	1.07	1.66	4.00	450	2.05	.80
Factory St.: Remsen, east.....	12-in.	85 " "	1.85	1.13	2.31	4.00	160	2.84	1.76
Rock Alley: White, north.....	12-in.	210 " "	1.40	1.13	1.22	4.00	300	2.00	1.03
Pine St.: Saratoga, west.....	8-in.	185 " "	1.36	1.07	.99	4.00	150	1.44	.80
Power canal: Courtlandt to Mohawk St.....			500.00	150.00	100.00	2000.00	2000.00	250.00	200.00
Oneida to Van Rensselaer St.			187.00	100.00	100.00	2500.00	2000.00	350.00	200.00
Oneida to Saratoga St.			187.00	175.00	100.00	50.00	10.00	50.00	100.00
Factory St. Alley			130.00	100.00	100.00	200.00	150.00	150.00	93.00
Champlain Canal at Peach St.			300.00	700.00	.....	350.00	1000.00	700.00	608.00
Outfall sewer: Peach St. to Mohawk River			2875.40	1800.00	2191.00	1500.00	1350.00	1500.00	1267.00
Relaying 12-in. sewers		880 lin. ft..	885.00	1.13	775.60	3.00	772.00	.90	457.60
Manholes: 10 ft. deep or less		50 each...	32.00	70.00	60.00	65.00	30.00	32.50	47.00
More than 10 ft. deep		16 " ...	37.00	85.00	70.00	85.00	38.00	40.00	55.00
Outfall sewer under Champlain Canal to Mohawk River...			.....	500.00	1641.00	600.00	500.00	580.00	377.60
Trench to Mohawk R. (4 ft. wide, 3 ft. deep.		100 lin. ft..	400.00	500.00	144.00	450.00	100.00	150.00	200.00
Drop manholes, 10 ft. deep or less		2 each...	37.00	40.00	70.00	90.00	40.00	45.00	50.00
More than 10 ft. deep		10 " ...	40.00	40.00	80.00	110.00	40.00	60.00	55.00
Lampholes, 10 ft. deep or less		23 " ...	4.00	15.50	8.00	25.00	2.50	2.50	4.00
More than 10 ft. deep		2 " ...	5.00	15.50	9.00	35.00	2.50	3.00	4.50
Y-connections: 6-in. for 8-in. pipe		15 " ...	.32	2.32	.23	2.00	.20	.25	.24
6-in. for 10-in. pipe		200 " ...	.51	2.62	.33	2.00	.25	.40	.40
6-in. " 12-in. "		260 " ...	.64	2.62	.43	2.25	.30	.50	.52
6-in. " 15-in. "		40 " ...	1.00	2.88	.78	2.75	.50	.60	.74
6-in. " 20-in. "		150 " ...	1.50	3.22	1.41	3.00	1.00	1.25	1.28
6-in. " 24-in. "		20 " ...	2.00	4.62	2.04	4.00	3.00	1.70	1.82
12-in. cast-iron pipe, for ravine sewer.....		12 lin. ft..	24.00	18.00	.....	50.00	25.00	20.00	20.00
20-in. vitrified pipe for overflow.....		175 " "	300.00	1.45	1.78	2.50	200.00	300.00	350.00
Total			$37,068	$30,577	$42,261	$85,617	$34,499	$42,100	$29,734

DREDGING.—Pensacola Bay, Fla.—Capt. C. A. F. Flagler, U. S. Engrs., Montgomery, Ala., informs us that the following bids were received Oct. 22 for dredging at the entrance of Pensacola Bay, as advertised in Engineering News: The National Dredging Co., Wilmington, Del., 17 4-10 cts. a cu. yd., capacity of dredge, 2,300 yds. a day; Rittenhouse-Morse Dredging Co., Mobile, 15 cts. a cu. yd., capacity of dredge, 8,000 cu. yds. a day (maximum).

INDUSTRIAL NOTES.

THE NATIONAL FOUNDRY & PIPE WORKS, Scottdale, Pa., has changed its Pittsburg office from 402 Lewis Block to 403-404 Murtland Building.

CURRAN & HUSSEY, Pittsburg, Pa., engineers and contractors, have removed their offices from 347 Fifth Ave. to 703-4-5 Hussey Bldg.

THE COLUMBIA CONSTRUCTION CO., 2 Wasser Bldg., Syracuse, N. Y., has removed its New York offices from 1210 Lord's Court Building, to 1205 Exchange Court Bldg.

THE WELLMAN-SEAVER ENGINEERING CO., Cleveland, O., has the contract for eight electric traveling cranes for the new plant of the Leechburg Foundry and Machine Co.

THE MORGAN ENGINEERING CO., Alliance, O., is said to have just received an order from Austria for a complete open hearth steel mill, and also a large order from Russia for cranes, etc.

THE SAFETY APPLIANCE CO., LTD., Wentworth Bldg., Boston, Mass., is equipping all the coaches and baggage cars of the Dayton & Union R. R. with its brake equilizer, and dead lever "take-up," and states that during the past month it has received orders to equip over 900 cars.

THE CONSOLIDATED CONSTRUCTION CO., 1007 Neave Bldg., Cincinnati, O., has been formed by E. H. Moorman and F. G. McMahon, to carry on a general contracting business. Mr. Moorman is a young architect of Cincinnati, and Mr. McMahon has for the past six years been located in Cleveland as the Ohio representative for G. W. G. Ferris & Co., Pittsburg.

THE PITTSBURG BRIDGE CO., Pittsburg, through its New England agents, Collins & Norton, Springfield, Mass., has recently secured the contract for five iron highway bridges, varying from 18 to 35 ft. in length, over Mill River, at Plainfield, Mass. The company has also the contract for an iron bridge over the Chicopee River, at Red Bridge, between Wilbraham and Ludlow, Mass., consisting of two spans of 65 and 75 ft. respectively.

THE JOLIET BRIDGE AND IRON CO., Joliet, Ill., shipped Oct 14 two bridges each of 100-ft. span, to Honolulu, by rail to Seattle, Wash., and thence by steamship to Honolulu. The bridges are for the Hawaiian Government on road improvements in the vicinity of Honolulu, and are of a good, serviceable type, being built in accordance with "Cooper's Standard Specifications for Highway Bridges." The company has at present enough orders to keep it running full for several months to come, and is sending work to several States.

THE JOHN STEVENSON CO., LTD., New York, has had Albert A. Wilcox, Paterson, N. J., and Louis Stern, New York, appointed temporary receivers, upon application of Chas. H. Davis, the President; Leander M. Delamater, Secretary and Treasurer; A. L. Phillips and B. P. Flint, directors. The assets of the company are $1,175,776, which is said to be considerably in excess of the liabilities. It is claimed that obligations aggregating over $200,000 will fall due within four months, and that these cannot be met. The company has recently erected a large plant at Bayway, N. J., and has not as yet been able to sell its New York property. The company will probably be reorganized.

NEW COMPANIES.—Waldberg Brewing Co., Boston, Mass.; $100,000, commencing with $100; M. H. Cobe, Geo. E. Cobe, M. S. Cobe, J. L. Frouck and A. I. Morris, all of Boston.

Knapp Shop, Incorporated, Boston, Mass.; $20,000, commencing with $125; to manufacture mechanical devices, etc.; Harry W. Bates, John D. Huhn, W. H. Brown and R. L. Stedman, of Boston; E. D. Luxton, of New York.

Southern Carbon Co., Warren, Pa.; $50,000, commencing with $500; to manufacture and sell carbon black and its products; Olive W. McNutt, Jefferson, O.; H. M. Preston, F. M. Knapp and John B. Cable, all of Warren, Pa.; Wm. S. Hoskins, Mount Jewett, Pa.

McCaull-Webster Elevator Co.; $100,000, commencing with $1,000; to construct and operate grain elevators and warehouses; Jas. L. McCaull, Douglas Webster and Chas. W. Crowl, all of Minneapolis, Minn.; Geo. H. Webster, Chicago, Ill.; John M. Sibert, Aberdeen, S. Dak.

American Motor Co., Kenova, W. Va.; $25,000, commencing with $10; to manufacture pumps, iron specialties, etc.; Wm. C. Reh, H. A. Schlingman, E. R. Deming, all of Toledo, O.; C. C. Coe and John P. Reh, of Kenova.

[illegible] Drilling Tool Co., St Mary's, W. Va.; $50,000, commencing with $500; to manufacture all kinds of oil and gas well machinery; W. P. Kingsbury, Parkersburg, W. Va.; H. P. Boyd, Pittsburg, Pa.; R. J. Boyd, Spencerville, O.; D. W. Reynolds and M. D. Hanes, of St. Mary's.

West Indies Plant Co., Boston, Mass.; $1,000,000, commencing with $1,520; to build and operate railways, vessels, etc., in connection with the transportation of plants; Thos. F. Galvin, J. De L. Galvin and Jas. H. McManus, of Boston; Louis Ross, New York; Geo. H. Wood, Winthrop, Mass.

Terrapin Knob Improvement Co., Parkersburg, W. Va.; $50,000, commencing with $1,250; to mine for oil, gas and minerals; H. H. Moss, C. H. Shattuck, H. P. Moss, Edward McCreary and J. M. Carfer, all of Parkersburg.

National Motor Carriage Co., 259 Washington St., Jersey City, N. J.; $500,000, commencing with $1,000; to manufacture vehicles of all descriptions, and motors operated by steam, vapor, etc.; Arthur W. Winslow, 44 Manhattan Ave., and Thos. D. Merrigan, 1987 Amsterdam Ave., both of New York; Chas. W. Parker, Jersey City.

New England Rubber Tire Wheel Co., Charleston, W. Va.; $50,000, commencing with $50; to place steel on iron channels on wheels in connection with rubber tires by a patent process; Dudley H. Bradlie, A. C. Gunther, M. H. Straughan, D. M. Black and J. M. Caldwell, all of Charleston, W. Va.

Continental Construction Co., 243 Washington St., Jersey City, N. J.; $250,000, commencing with $10,000; to construct railways, bridges, wharves, etc.; Henry N. Bates, Warren Hunt and Chas. N. King, 243 Washington St., Jersey City.

Choctaw Construction Co., 765 Broad St., Newark, N. J.; $800,000, commencing with $1,000; to build and equip a railway or railways in Arkansas; Francis I. Gowan, Chas. E. Ingersoll and Robert H. McCarter, all of Philadelphia.

Hartford & Springfield Railway Construction Co., Flemington, N. J.; $100,000, commencing with $1,000; to build and equip railway lines, electric light and power plants, etc.; George W. Dunham, Flemington, N. J.; Henry Seligman, Edward R. Gilman and Thos. A. Lee, of New York.

Iron Clad Resistance Co., Westfield, N. J.; $25,000, commencing with $1,000; to conduct a business of electrical and mechanical engineers; Arthur W. Berresford, August P. Munning and Horace M. Williams, all of Westfield.

Hevner Roadbed Construction Co., 419 Market St., Camden, N. J.; $250,000, commencing with $10,000; to construct and equip roads and roadbeds; Justus Straub, Jos. L. Dailey and John P. Batt, of 419 Market St., Camden.

Federal Steel Co., 60 Grand St., Jersey City, N. J.; $200,000,000, commencing with $3,000; to conduct a general mining and manufacturing business; Chas. C. Cluff, Chas. MacVeagh and Benj. C. Van Dyke, all of Jersey City.

Rudman Iron Foundry Co., 49 Hermon St., Newark, N. J.; $25,000, commencing with $2,100; to conduct a general foundry and casting business; Charles Rudman, John Ortman, John Kern and John B. Oelkers, all of Newark.

Standard Light & Heat Co., Philadelphia, Pa.; $1,000,000, commencing with $1,000; to manufacture and sell gas machines, etc.; R. M. Robinson, Wm. L. Teter, E. C. Wharton and Henry Robertson, of Philadelphia; Jos. W. Irwin, Govanstown, Md.

Baechtold Electric Co., 1 Montgomery St., Jersey City, N. J.; $50,000, commencing with $33,000; to manufacture dynamos, electric lamps, etc.; Christian Baechtold, 194 Cornelia St., and John P. Bonney, 1302 Jay St., both of Brooklyn, N. Y.; Dennis B. Ryan, 1 Montgomery St., Jersey City.

Briquette Coal Co., New York; $600,000, commencing with $63; to manufacture or deal in artificial and natural fuel; Geo. A. McGlone, Harry E. Swan, F. G. Corning, T. J. Hurley and J. F. Ryan, all of New York.

Alconia Co., Pittsburg, Pa.; $150,000, commencing with $4,200; to manufacture iron and steel; W. H. R. Hillard, M. M. Garland and Wm. S. Collier, Pittsburg; Oliver Wylie, Wilkinsburg, Pa.; T. H. Jeremiah, Youngstown, O.

Tudor Co., Charleston, W. Va.; $12,000, commencing with $3,000; to quarry stone and to operate lands for oil and gas; Alfred Ely, H. D. Macdona, Alfred Monierre, Harold Binney and H. H. Porter Jr., all of New York.

Ecuador Development Co., 19 West 8th St., Bayonne, N. J.; $200,000, commencing with $112,500; to construct and maintain all kinds of public works, including railways, water-works, etc.; Archer Harman, 30 Broad St.; M. F. McLanahan, 27 Pine St., and C. H. Sherrill, 30 Broad St., all of New York; T. C. Welkman and Hugh Sivell, both of Bayonne.

General Equipment Co., 301 Market St., Camden, N. J.; $100,000, commencing with $1,000; Edward Dudley, G. G. Browning, Benj. C. Reeve, Wm. S. Scull and E. A. Armstrong, all of Camden.

Lewiston & Greene Telephone Co., Lewiston, Me.; $10,000, commencing with $30; to build and operate telephone lines in Androscoggin and Kennebec counties; Pres. William Williams, Monmouth; Treas., Walter H. Brown, Lewiston.

Ottumwa Long Distance Telephone Co., Ottumwa, Ia.; $60,000; to construct and operate telephone lines in Iowa and Missouri; Pres., Jay C. Goddard; Vice-Pres., P. E. Wilcox, both of Ottumwa.

Bryan Telephone Co., Bryan, O.; $40,000; Wm. W. Morrison, I. C. Gardner, E. E. Barber, Jas. S. Bailey, Jr., and R. C. Starr.

Allen County & Smith Grove Telephone Co., incorporated in Kentucky; $2,400; G. W. Motley and P. H. Beckham.

Atlanta Telephone Co., Atlanta, Macon county, Mo.; $2,700; H. H. Abbott, S. H. Nash, R. B. Turner and others.

Silver Creek Telephone Co., Yazoo City, Miss.; $1,000; R. M. Beaman, Smith & McDonnell, T. W. Fisher, J. P. Moore, J. D. Upshaw, Campbell & Stubblefield, Commercial State Bank.

Huntingdon County Telephone Co., Saltillo, Pa.; $25,000; C. Kapp, John Kapp, G. Sleeman.

Mentor Telephone Co., Mentor, O.; $25,000; to construct and operate a telephone line in Lake county; J. W. Lowe, Carl Hogenberger, A. I. Ingersoll, P. M. Fuller and others.

North Park Telephone Co.; $15,000; to operate a telephone line between Walden, Colo., and Laramie, Wyo.; Monte Blevins, J. S. Mosman, G. F. Scott, C. E. Mosman, M. A. Ward.

Montowese Brick Co., New Haven, Conn.; $12,000, with $2,400 paid in; to manufacture and sell all kinds of brick, terra cotta and tiling; William Spitter and Frederick Westermann, of New Haven; Henry Born and Edward Boehm, North Haven.

Automatic Air Coupler Co., Pierre, S. Dak.; $500,000; A. H. Van Camp, Highmore, S. Dak.; William J. Pugh and J. H. Vail, Muscatine, Ia.

Universal Mfg. Co., Portland, Me.; $10,000, commencing with $30; to manufacture automatic gas valves of every description; Pres., William J. Ross, Chelsea, Mass.; Treas., Edward L. Rand, Jamaica Plains, Mass.

Schlicht Combustion Process Co., Jersey City, N. J.; $1,000,000; for the development and introduction of systems of generating and supplying heat, light, power and ventilation; Frank M. Doane and Walter T Kase, Jersey City, and Joseph W. Connelly, Caldwell, N. J.

Hoosier Cement Co., Clark county, Ind.; $35,000; to manufacture cement; John H. McQuiddy, Emmet Cuddy, Augustus H. Gray and others.

John Howland Construction Co., Rolla, Mo.; $100,000; W. C. Johnson, Herman Dowd, E. A. Johnson and F. E. Dowd.

American Iron & Steel Co., 60 Grand St., Jersey City, N. J.; $1,000,000, commencing with $2,100; to do a mining and manufacturing business; to build ships, railways, etc.; Wm. Fillingham, Kenneth K. McLaren and Harry W. Meen, 60 Grand St., Jersey City.

Mail Delivery Notice.

Special efforts are made to deliver our paper to its readers each week at the earliest possible moment. The largest binding and mailing establishment in New York begins work on Engineering News early each Wednesday evening, and all papers for Boston, Philadelphia and Washington are usually in the New York post-office by midnight; all Brooklyn and New York city papers by 3 o'clock—in ample time for the first delivery Thursday morning. The entire edition, including foreign copies, is in the mail soon after 6 o'clock Thursday morning. If your paper is not received promptly we advise that you make a complaint to your local post-office officials.

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